O

Chuska Energy Co., Black Rock #8 18,40N,29E. NE NE #871

	1		<b>X</b> . ;	
COUNTY APACHE		AREA BLACK ROCK F	IELD LEASE NO	. NAVAJO TRIBE
<del> </del>			<del> </del>	NOG 8702-1116
NELL NAME CHUSKA ENERG	GY COMPANY,	BLACK ROCK NO. 8		12-1-2
LOCATION NE NE	SEC 18	TWP 40N RANGI	E 29E FOOTAGE 119	O' FNL, 1190' FEL
DV DV 62251 on 6236	5 lvn - 000		STATUS GAS	TOTAL /90 DEPTH 5940'
ELEA 0552 GK 0530	· J KB SPU	DD DATE 1711770	COMP. DATE 3/1	790 DEPTH 3940.
CONTRACTOR AZTEC DRI	LLING COMPA	ANY		
CASING IZE DEPTH	CEMENT	LINER SIZE & D	EPTH DRILLED BY	ROTARY X
8 5/8" 5021	360sx		DRILLED BY	CABLE TOOL
5 1/2" 5940'	1650sx	····	PRODUCTIVE	RESERVOIR PARADOX FM
			INITIAL PRO	DOUCTION 3140 MCFPD
		SOURCE		
FORMATION TOPS	DEPTHS	L.L. E.L.	REMARKS	
UPPER ISMAY	4854		TOPS SUPPLIED BY OF	PERATOR
LOWER ISMAY	4911		····	
DESERT CREEK	5002		· · · · · · · · · · · · · · · ·	
· АКАН	5142			
BARKER CREEK	5298			<del> </del>
PINKERTON TRAIL	5425			
MISSISSIPPIAN	5694			
				<del>,-</del> , <del>, , , </del>
	<del> </del>			
ELECTRIC LOGS	PER	FORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
DLL/SP/GR/CAL, CNL			SEE COMP RPT	SAMPLE DESCRP.
MICROSCAN				SAMPLE NO.1869 CORE ANALYSIS
				DSTs
REMARKS				APP. TO PLUG
-				PLUGGING REP.
		<del></del>		COMP. REPORT 3/5/90
WATER WELL ACCEPTED	ву			
BOND CO. VALLEY NAT	IONAL BANK	, PHOENIX	BOND NO. C.D DATE 12/10/8	
BOND AMT. \$ 25,000		CANCELLED		REPORT X
				PLAT BOOK X
API NO. 02-001-20290	<u> </u>	DATE ISSUED 1/2/9	O DEDICATION	NE 1/4
PERMIT NUMBER 871				

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New Wo	rk		_	Plug		Same	,, oo	D	ifferent	L1		r1		M	Dry	[-]
Well 🔀 Ove	er	Deaper	<u>. L.</u>	Back	<u></u>	Reserv	<del></del> -		eservoir		011		Gas		Diy	
Operator				DES	CHIP	TION OF V	Address	LEP								-
Chuska Ei	nerav O	റത്ത	רו				315 Nort	h Be	hrend.	Farmino	ton.	New Ne	xico 87	401		
Federal, State or Inc				essor if f	ree le	ase	Well Numb			ld & Res						
Black Ro							8		I в	lack	Ro	ck/F	arac	kot		
Location	<u>.=</u>			· · · · · · · · · · · · · · · · · · ·	_		Cour	nty	•=					_		
11	90' FNL	, 11	90′_1	FEL_			Αŗ	ac	he							
Sec. TWP-Range or	Block & Surve	Y														
185 T40					Las				Et				Flores	tion of	casing	
Date spudded	ļ	te total o	-	ched		te complete duce	-	· ]	Elevatio (DF, RK	(B,RTc	ır Gr.)		hd. f	ange	_	
1-11-90		<u>. – 30 –</u> 3.T.D.	90		1	3-1-9 gle, dual or	0	nlasi.		225 T		feet is is a di			GR	feet
Total depth	1		·		3111			hierii	JIII	1	furni pleti	ish sepai	ate repo	ort for	npletion each con	n-
5940' M Producing interval (		587	<del>/</del>		┸	Sin	Rotary to	ols u	sed (inte	rval)	bieri		tools u	sed (in	terval)	
•								-								
4,928' - Was this well directi	onally drilled?	rar Wa	s direction	onal surv	ey ma	ade?	Rotar Was copy	of di	rectiona	survey		Date	filed			
No			lo				filed?				_		/A			
Type of electrical o	r other logs ru	ın (check	logs file	d with th	e cor	nmission)	<u> </u>					Date				
DLL/SP/GR/	/Cal. CN	/LDC	Mich	<u>rosc</u> ar	1							2-	-28-9	<del>2</del> 0		
						CASING										
Casing (report all st				<u>.</u>				)	Davids .		<del></del>	anka an		<del>-1</del>	Amt, pull	lad
Purpose	Size hole	drilled	Size	casing se	t	Weight	(lb./ft.)		Depth s	et	*	acks cer	nent	1 ^	Amt, pui	iea
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3-1-90	3	_	5 5,20	]		bbls.	1	140	_		6		bb	- 1	=	l (Corr)
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Vented																
CERTIFICATE:	l the content	inned	dor +h	apporter -	f co-	ium etata 1	hat I am sh		000	erat:	ion	s Ma	nade	· r		of the
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Chuska	<u></u>			11-a*	6	company),	and that I a	ım aı	thorized	by said	comp	any to	make th	is repo	rt: and ti	hat this
report was prepa	red under my	supervis	ion and d	irection	end t	nat the fac	ts stated the	erein	are true,	correct , אמ	and c	ompiete	: to the	Dest 01	шу кпо	wieuge.
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Date							Signa	RTITE	10114	<u>~_</u>	~~ /			_		
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Permit No. 8	77/						Form	140, 4	•	•	<del></del> '		•			

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Separation and Acidization Record   Separation Trail   Separation Tr	Upper Issay Lower Issay Lower Issay A971 S002 S142 Akah S142 S298 Barker Creek S298 S425 Pinkerton Irail S485 S494 S940  Pinkerton Trail S485 S494 S382 S382 S382 S392 S400 S402 S410  Desert Creek S024 S024 S029 S400  Desert Creek S024 S027 S400 S400 S400 S400 S400 S400 S400 S40																1		Т
Solid	Desert Creek   Song			·	ION*	RIPT	ESC	IQ						_	M	вотто	Р	то	FORMATION
Solid	Lower Isaay   49/1   5002   5142   684   5142   5298   684   5142   5298   684   5475   5694   684															4044			
Desert Creek	Desert Creek   S002   S142   S298   S425   S491   S694														. 1				
State   Stat	Same																		
Desert Creek   5298   5425   5494   5940	Desert Creek   S298   S425   S694   S940																' '		
PERFORATION AND ACICIZATION RECORD  Pinkerton Trail	PERFORATION AND ACTIGIZATION RECORD  Pinkerton Trail																		
PERFORATION AND ACIGIZATION RECORD  Pinkerton Trail	### PERFORATION AND ACIGIZATION RECORD  Pinkerton Trail																		rker Creek
PERFORATION AND ACIDIZATION RECORD  Pinkerton Trail 5485 5491 250 gal 28% MSR-100, 1500 gal 28% HCl gelled acid  Barker Creek 5382 5386 5397 5400 5410 } 500 gal 28% MSR-100, 5000 gal 28% HCl gelled acid  Desert Creek 5024 5029 3050 gal 28% MSR-100, 2000 gal 28% HCl gelled acid  Desert Creek 5048 5052 } 250 gal 28% MSR-100, 2000 gal 28% HCl gelled acid  S074 5078 3082 5086 } 250 gal 28% MSR-100, 2250 gal 28% HCl gelled acid  Lower Ismay 4928 4934 } 800 gal 28% MSR-100, 1200 gal 28% HCl gelled acid  \$\frac{1}{2}\$ \$\f	PERFORATION AND ACICIZATION RECORD  Pinkerton Trail																		nkerton Trail
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5082 5086 } Lower Ismay 4928 4934 } 800 gal 28% MSR-100, 1200 gal 28% HEI gelled acid 4978 4982 }	5082 5086 }  Lower Ismay 4928 4934 } 800 gal 28% MSR-100, 1200 gal 28% HEl gelled acid 4978 4982 }								•			•		Ι.				1	ESTI C DI EER
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4978 4982 }	4978 4982 }			•			•					3		ŀ				1	
4978 4982 }	4978 4982 }		acid	gelled a	. HEI	28%	gal	1200	-100,	KSI	287	gai	800	١,		4934	! !	4928	ower Ismay
All perforations were € 2 spf using 4" casing guns with Schlumberger HJ II charges	All perforations were € 2 spf using 4" casing guns with Schlumberger HJ II charges													)		4982			
			rges	II charg	er Hj	erge	lumb	h Schi	5 wit	gu	sing	" ca	ng 4	<u>us</u> 1	€ 2 spf	ns were	perforati	All	•
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<sup>\*</sup> Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

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Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion region and well log shall be filed with the State of Arizona Gas Conservation Commission not later than thirty days after project completion.

Form No. 4

Torm 3160-5 June 1990)  DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT  SUNDRY NOTICES AND REPORTS ON WELLS  Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  Use "APPLICATION FOR PERMIT—" for such proposals  Node 8707-114 6. If Indian, Allottee or Tri	[ 1993
SUNDRY NOTICES AND REPORTS ON WELLS  Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  Use "APPLICATION FOR PERMIT—" for such proposals  7. If Unit or CA. Agreement	12
TOTAL TO TOTAL TOT	ibe Name
	YIN 8 !!
i. Type of Well  Oil KKwell Other Shut-In  Black Rock	#8
2. Name of Operator  Harkon, Southwest Corporation  9. API Well No.  02-001-2029	10
P.O. Box 612007 Dallas, TX 75261-2007 (972)753-6900  Black Rock Location of Well (Footage, Sec., T., R., M., or Survey Description)	
NE/NE Section 18-40N-29E 1190' FNL & 1190' FEL Apache Cour	nty, AZ
CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER D.	ATA
12. CHECK APPROPRIATE BOX(S) TO INDICATE WITHOUT TYPE OF ACTION	
TYPE OF SUBMISSION Change of Plans	
Abandonment New Construction Recompletion Non-Routine Fraction	
Subsequent Report    Plugging Back   Water Shut-Off	
Final Abandonment Notice    Altering Casing   Dispose Water     Note: Report results of many part of the case of proposition	ultiple completion on Wellion Report and Log form.)
Competion of Actors of the Processed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well markers and zones pertinent to this work.)*	·· · · -

Harken Southwest (HSW) request approval to continue a Temporarily Abandon status on the subject wellbore. Current economic evaluations indicate the last remaining useful function for the well is a water injection well.

HSW plans to submit a permit to the EPA, Region 9 Office, in the near future. Previous experience indicates a minimum of one year for processing the permit and obtaining all of the necessary approvals to convert the wellbore to an injector status.

Should additional information be required, please contact Mr. Richard O. Cottle or the undersigned at (972) 753-6900. CC:

State of Arizona Navajo Nation - Minerals Dept. BIA - Gallup, NM

Ow Jomes Production Administrator 14. I hareby certify Approved by Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993 UNITED STATES Form 3160-5 DEPARTMENT OF THE INTERIOR (June 1990) 5. Lease Designation and Serial No BUREAU OF LAND MANAGEMENT NOG 8707-1142 SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals Navajo 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE  $A \setminus N$ 8. Well Name and No. 1. Type of Well Oil KX Gas Well Black Rock #8 API Well No. 2. Name of Operator Harken Southwest Corporation 02-001-20290 10. Field and Pool, or Exploratory Area 3. Address and Telephone No. Texas 75261-2007 P.O. Box 612007 Dallas, Texa
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Black Rock 11. County or Parish, State NE/NE Section 18-40M-29E Apache Co., AZ 1190' FNL & 1190' FEL CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF ACTION TYPE OF SUBMISSION Change of Plans Abandonment Notice of Intent New Construction Recompletion Non-Routine Fracturing Plugging Back Water Shut-Off Subsequent Report Casing Repair Conversion to Injection Altering Casing Final Abandonment Notice Dispose Water XXother Updated site (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) Security Diagram 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\* Attached you will find the updated site security diagram, for the above referenced lease, as of January 1998. State of Arizona CC: Navajo Nation BIA 63 14. I hareby com Title Production Administrator Approved by Conditions of approval, if any: Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

HARKEN SOUTHWEST CORP.

BLACKROCK #8

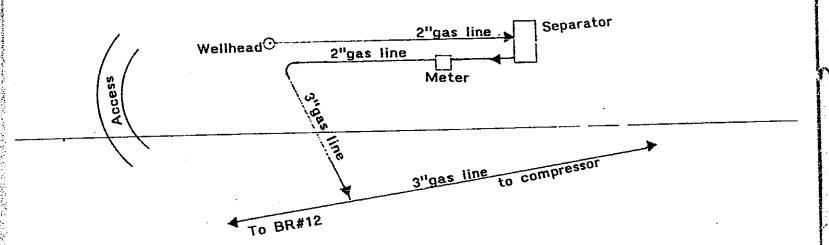
SECTION 18-T40N-R29E

APACHE COUNTY, ARIZONA

LEASE NOG-87071142

2 IN 871

REV. 1/20/98



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FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993 UNITED STATES Form 3160-5 DEPARTMENT OF THE INTERIOR (June 1990) 5. Lease Designation and Serial No. BUREAU OF LAND MANAGEMENT NOG 8707-1142 SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals Navajo

7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE 7/N87 N/AI. Type of Well 8. Well Name and No. Oil KX Gas Well Black Rock #8 2. Name of Operator 9. API Well No. 02-001-20290 Harken Southwest Corporation 3. Address and Telephone No. 10. Field and Pool, or Exploratory Area P.O. Box 612007, Dallas, Texas 75261-2007 (972)753-6900 Black Rock 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 11. County or Parish, State NE/NE Section 18-40N-29E Apache, AZ CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF ACTION TYPE OF SUBMISSION \_\_ Change of Plans Abandonment Notice of Intent New Construction Recompletion Plugging Back XX Subsequent Report Water Shut-Off Casing Repair Altering Casing Final Abandonment Notice 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\* Swabbing efforts and pressure build-up attempts have proved unsuccessful. Therefore, the Black Rock #8 is shut-in pending engineering evaluation. State of Arizona ARIZONA CC: Navajo Nation - Minerals Dept BIA - Gallup, NM Ć, wtormore Tide Production Administrator Date 08/19/97

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

Approved by Conditions of approval, if any:

FORM APPROVED UNITED STATES Form 3160-5 Budget Bureau No. 1004-0135 DEPARTMENT OF THE INTERIOR (June 1990) Expires: March 31, 1993 5. Lease Designation and Serial No. BUREAU OF LAND MANAGEMENT NOG 8707-1142 SUNDRY NOTICES AND REPORTS ON WELLS 6. If Indian, Allonee or Tribe Name Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals Navajo 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE 1. Type of Well Oil KX Well Black Rock #8 2. Name of Operator 9. API Well No. HARKEN SOUTHWEST CORPORATION 02-001-20290 3. Address and Telephone No. 10. Field and Pool, or Exploratory Area 214-753-6900 Dallas, Texas 75261 P.O. Box 612007 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 11. County or Parish, State Sec 18-40N-29E (NE/NE) Apache Co., AZ 1190' FNL & 1190' FEL CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF ACTION TYPE OF SUBMISSION Change of Plans Notice of Intent New Construction Non-Routine Fracturing Plugging Back XX Subsequent Report Water Shut-Off Conversion to Injection Final Abandonment Notice Dispose Water (Note: Report results of a 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled. give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\* Swabbing the wellbore did not result in reduced fluid levels. Therefore, in an effort to reduce water production and stimulate hydrocarbon production, Harken Southwest performed the following work within the Paradox formation of the wellbore: Set CIBP @ 5350 to isolate water flow. Desert Creek & Ismay are still open. Perforate Akah 5260-68'; 5174-5178'; 5142-46' 15% HCL: Swab well. Return to production. State of Arizona cc: Navajo Nation - Minerals Dept. BIA - Gallup, NM JUN 03 1998 Date 05/29/96 Title Production Administrator Approved by Conditions of approval, if any: Title

\*See Instruction on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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Harry

AUG 17 '93 08:51 CHUSKH FARMINGTON NM

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## HALLIBURTON DISTRICT LABORATORY

WATER ANALYSIS DATA SHEET

Analysis Date:	8-16-93		Report No.
fo: 			Permit 871
Submitted By	!huska Energy Compa:	nu Date Receive	d 8-16-93
	ACK ROCK #8		
	NE/4 18-40N-29E		Commingled
water collected	i from separator du	mp	Data For Report
		Spec	cific Gravity 1.034
		Ħq	6.76
Aliquot or Dilution	Ion Calcu		mqq
	Fe Log		10
	K %T		
	Na %T		11,600
	Ca		
	Mg		816
	c1		28,000
	S04 Log		2,600
	CO3		
	<del></del>		629
	TDS		49,308
			Rw <u>.19</u> @ <u>80</u> °F

Notice

This report is based on sound engineering practices, but because of variable well conditions and other information which must be relied upon. Halliburton Services makes no warranty, express or implied, as to the accuracy of the data or of any calculations or opinions expressed herein. You agree that Halliburton shall not be liable for any loss or damage whether due to regligence or otherwise arising out of or in connection with such data, calculations or opinions.

REPORT OF UNDESTRABLE EVENT AZO COMMISSION TIME OF OCCURRENCE: 1300 HRS DATE OF OCCURRENCE/DISCOVERY: 1-31-91 DATE REPORTED TO BLM: 1-31-91 TIME REPORTED: 1526 HRS BLM OFFICE REPORTED TO (RESOURCE AREA/DISTRICT OFFICE/OTHER): FARMINGTON LOCATION: SECTION: 18 T. 40N R. 29E MERIDIAN COUNTY: \_\_\_\_APACHE \_\_\_ STATE: \_\_ARIZONA WELL NAME: \_BLACK ROCK #8\_ OPERATOR: CHUSKA ENERGY COMPANY SURFACE OWNERSHIP (FEDERAL/INDIAN/FEE/STATE): NAVAJO TRIBAL MINERAL OWNERSHIP (FEDERAL/INDIAN/FEE/STATE): NAVAJO TRIBAL LEASE NO.: NOG 8702-1116 UNIT/CA NO.: \_\_\_\_\_ RIGHT-OF-WAY NO. \_ TYPE OF EVENT, CIRCLE APPROPRIATE ITEM(S): BLOWOUT, FIRE, FATALITY, INJURY, PROPERTY DAMAGE, OIL SPILL, SALTWATER SPILL, TOXIC FLUID SPILL, OIL AND SALTWATER SPILL, OIL AND TOXIC FLUID SPILL, SALTWATER AND TOXIC FLUID SPILL, GAS VENTING, UNCONTROLLED FLOW OF WELLBORE FLUIDS, OR OTHER (SPECIFY): \_ CAUSE OF EVENT: WELL HAD PRODUCED NO MORE THAN 5-10 BBL/DAY FOR LAST 1 1/2 YEARS. PRODUCED MORE THAN 200 BBL OVERNIGHT. OVERFLOWED 210 BBL STOCK TANK. CAUSE AND EXTENT OF PERSONAL INJURIES/CAUSE OF DEATH(S): EFFECTS OF EVENT: OIL DRAINED OFF LOCATION DOWN ROAD APPROX 2/10 MILE AND ON HILLSIDE APPROX 2/10 MILE. MOST OF SPILL ON SNOW/FROZEN GROUND. ACTION TAKEN TO CONTROL THE EVENT: SHUT IN WELL. BUILD DIKE ACROSS ROAD TO PREVENT FURTHER DRAINAGE WHILE CLEANUP OPERATIONS IN PROGRESS. LENGTH OF TIME TO CONTROL EVENT AND SUBSEQUENT CLEAN-UP: IMMEDIATE CONTROL. CLEANUP OPERATIONS COMMENCED IMMEDIATELY AND WILL BE COMPLETED 2-1-91. CONTAMINATED SOIL TO BE STOCKPILED ON LOCATION FOR BURIAL IN RESERVE PIT.

OTHER FEDERAL, STATE, AND LOCAL GOVERNMENT AGENCIES NOTIFIED (INCLUDE NAMES AND DATE/TIME): ARIZONA OIL AND GAS COMMISSION (1-31-91/1535 HRS), NAVAJO MINERALS (1-31-91/1542 HRS). MESSAGE FOR NAVAJO EPA (1-31-91/1549 HRS).

ACTION THAT HAS BEEN OR WILL BE TAKEN TO PREVENT RECURRENCE: PLACE LARGER STOCK TANK ON LOCATION. NIGHT PUMPER TO INCLUDE WELL ON ROUNDS FACH NIGHT.

SIGNATURE OF OPERATOR (IF REPORT SUBMITTED BY OPERATOR)

DATE: 2-1-91

TITLE: OPERATIONS ENGINEER

NMSO 10/7/87

pr871

(3

VOLUME(S) OF FLUIDS (SPECIFY):

RECOVERED: 20-25 BBL OIL

DISCHARGED: 20-25 BBL OIL CONSUMED:

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MANAGEMENTA N COMMISSION NMSO 10/7/87

REPORT	OF	UNDESTRABLE	EVENT	CHECKL	: LS <sub>3</sub> T-:
			_	T L. U	/ 150:

DATE OF OCCURRENCE/DISCOVERY: 1-31-91 TIME OF OCCURRENCE: 1300 HRS
DATE REPORTED TO BLM: 1-31-91 TIME REPORTED: 1526 HRS
BLM OFFICE REPORTED TO (RESOURCE AREA/DISTRICT OFFICE/OTHER): FARMINGTON
LOCATION: SECTION: 18 T. 40N R. 29E MERIDIAN
COUNTY: APACHE STATE: ARIZONA WELL NAME: BLACK ROCK #8
OPERATOR: CHUSKA ENERGY COMPANY
SURFACE OWNERSHIP (FEDERAL/INDIAN/FEE/STATE): NAVAJO TRIBAL
MINERAL OWNERSHIP (FEDERAL/INDIAN/FEE/STATE): NAVAJO TRIBAL
LEASE NO.: NOG 8702-1116 UNIT/CA NO.: RIGHT-OF-WAY NO
TYPE OF EVENT, CIRCLE APPROPRIATE ITEM(S):
BLOWOUT, FIRE, FATALITY, INJURY, PROPERTY DAMAGE, OIL SPILL, SALTWATER SPILL, TOXIC FLUID SPILL, OIL AND SALTWATER SPILL, OIL AND TOXIC FLUID SPILL, SALTWATER AND TOXIC FLUID SPILL, GAS VENTING, UNCONTROLLED FLOW OF WELLBORE FLUIDS, OR OTHER (SPECIFY):
CAUSE OF EVENT: WELL HAD PRODUCED NO MORE THAN 5-10 BBL/DAY FOR LAST 1 1/2 YEARS. PRODUCED MORE THAN 200 BBL OVERNIGHT. OVERFLOWED 210 BBL STOCK TANK.
CAUSE AND EXTENT OF PERSONAL INJURIES/CAUSE OF DEATH(S):  NONE
EFFECTS OF EVENT: OIL DRAINED OFF LOCATION DOWN ROAD APPROX 2/10 MILE AND ON HILLSIDE APPROX 2/10 MILE. MOST OF SPILL ON SNOW/FROZEN GROUND.
ACTION TAKEN TO CONTROL THE EVENT: SHUT IN WELL. BUILD DIKE ACROSS ROAD TO PREVENT FURTHER DRAINAGE WHILE CLEANUP OPERATIONS IN PROGRESS.
LENGTH OF TIME TO CONTROL EVENT AND SUBSEQUENT CLEAN-UP: IMMEDIATE CONTROL. CLEANUP OPERATIONS COMMENCED IMMEDIATELY AND WILL BE COMPLETED 2-1-91.  CONTAMINATED SOIL TO BE STOCKPILED ON LOCATION FOR BURIAL IN RESERVE PIT.
VOLUME(S) OF FLUIDS (SPECIFY): DISCHARGED: 20-25 BBL OIL CONSUMED: RECOVERED: 20-25 BBL OIL
OTHER FEDERAL, STATE, AND LOCAL GOVERNMENT AGENCIES NOTIFIED (INCLUDE NAMES AND DATE/TIME): ARIZONA OIL AND GAS COMMISSION (1-31-91/1535 HRS), NAVAJO MINERALS (1-31-91/1542 HRS). MESSAGE FOR NAVAJO EPA (1-31-91/1549 HRS).
ACTION THAT HAS BEEN OR WILL BE TAKEN TO PREVENT RECURRENCE: PLACE LARGER STOCK TANK ON LOCATION. NIGHT PUMPER TO INCLUDE WELL ON ROUNDS EACH NIGHT.
SIGNATURE OF OPERATOR (IF REPORT SUBMITTED BY OPERATOR)

SUNDRY NOTICES AND REPORTS

		ggitait i		ner on to		
1. Name of Operator <u>C</u>	huska Energy Limite	1		<del></del>		
2. 01L WELL [ ]	GAS WELL [X]	OTHER [ ]	<b>(</b> Sp	ecify)		
3. Well Name	Black Rock #8	P/N	87/	·		
Location	1190' FN, 1190'	FEL	<del> </del>		,	
Sec18	Тыр. <u></u>	40N	Rge	29E	County	, Arizona.
4. Federal, State or 1	Indian Lease Name, o	r lessor's mame i	f fee lease	·		
มกต กาลว่า	111/ Mauria Teibal				AZ OIL & G	AS
MUB 8702-	1116 Navajo Tribal				CONSERVATION CO	MMISSION
5. Field or Pool Name	81ack Ro	nck			MAR 7 19	og ()
6. Check Appropriate	Box to Indicate Natu	are of Notice, Rep	ort or Oth	er Data	BIAIX 1 E	ายบ
NOTIC	E OF INTENTION TO				SUBSEQUENT R	EPORT OF
TEST MATER SHUT OFF ( FRACTURE TREAT ( SHOOT OR ACIDIZE ( REPAIR WELL ( (OTHER)	) DIRECT!	ATE CASING [ ] PLANS [ ]	   	FRACTURE TA SHOOTING OR	OFF [] REATHENT [] R ACIDIZING [] First sale of gas	REPAIRING WELL [ ]
			(NO	•		oletion on Well Completion
date of starting	OR COMPLETED OPERAT any proposed work. or all markers and z	If well is dire	ectionally	inent details drilled, give	and give pertinent o	dates, including estimated ons and measured and true
First delivery of	Sales Gas occurred	at 1100 hrs, 03-0	1-90. Flowi	ng at estimate	d rate of 2,508 Mcfd	
A. I hereby certify	that the forceming	is true and corre	ct.			
8. <u>I hereby certify</u> Signed	that the foregoing	is true and corre	it.	Operations	#anage	Date 3-2-90

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and Reports on Wells
File One Copy

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SUNDRY NOTICES AND REPORTS Permit # 871 1. Name of Operator <u>Chuska Energy Limited</u> (Specify) GAS WELL [X] OTHER [ ] 2. OIL WELL [ ] 3. Well Name Black Rock #8 Location \_\_\_\_\_\_\_ 1190' FR, 1190' FEL 40N Rge. 29E County Sec. <u>18</u> Twp. \_\_\_ AZ OIL & GAS NOG 8702-1116 Navajo Tribal 5. Field or Pool Name Black Rock 6. Check Appropriate Box to Indicate Nature of Hotice, Report or Other Data SUBSEQUENT REPORT OF NOTICE OF INTENTION TO NONTHLY PROGRESS [ ] PULL OR ALTER CASING [ ] WATER SHUT OFF [] TEST WATER SHUT OFF [ ] REPAIRING WELL [] FRACTURE TREATMENT [ ] DIRECTIONAL DRILL [ ] FRACTURE TREAT ALTERING CASING [ ] SHOOTING OR ACIDIZING [ ] PERFORATE CASING [] SHOOT OR ACIDIZE [ ] ABANDONMENT [] CHANGE PLANS [] REPAIR WELL [X] (OTHER) <u>First sale of gas</u> (OTHER) (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.) 7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) First delivery of Sales Gas occurred at 1100 hrs, 03-01-90. Flowing at estimated rate of 2,508 Mcfd. Operations Manager Date <u>3-2-90</u>

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and Reports on Wells
File One Copy

Permit No.

SUNDRY NOTICES AND REPORTS ON WELLS

**AZ OIL & GAS** 

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and fleports On Wells
File One Copy

Form No. 25

**CONSERVATION COMMISSION** Chuska Energy Company 1. Name of Operator\_ FEB 13 1990 GAS WELL | X OTHER 📋 2. OIL WELL []] (Specify) 3. Well Hame Black Rock #8 totation 1190' FNL, 1190' FEL 29E Apache 18 County NOG 8702-1116 4. Federal, State or Indian Lease Humber, or lessor's name if fee lease Black Rock 5. Field or Pool Heme 8. Check Appropriate Box to Indicate Plators of Plotice, Report, or Other Date NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: MONTHLY PROGRESS TEST WATER SHUT-OFF **PULL OR ALTER CASING** WATER SHUT-OFF **HERAIRING WELL** FRACTURE TREAT DIRECTIONAL DIRECT FRACTURE THEATMENT SHOOT OR ACIDIZE SHOOTING ON ACIDIZING ALTERUNG CASING PERFORATE CASING **ABANDONMENT BELVIU METT** Operations - Casing (OTHER) (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) 7. DESCRIBE PROPOSED ON COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drifted, give subsurface locations and measured and true vertical depths for all markers and tones pertinent to this work.) Rigged up and ran 140 joints (5,934.6') 5-1/2", 15.5 1b/ft, K-55, LTC casing, with guide shoe and differential float collar and stage tool at 3,777'. Set at 5,935'. Cemented as follows: First stage: 175 sx 35:65 Poz with 6% gel, 0.4% D-112, 1% CaCl<sub>2</sub> and 1/4 lb/sk Celloflake, followed with 500 sx Class 'G' with 3% KCl, 0.6% D-60, 0.2% D-136 and 1/4 lb/sk Celloflake. Opened stage tool. Circulated 4 hrs between stages. Second stage: 875 sx 35:65 Poz with 6% gel, 0.4% D-112, 1% CaCl<sub>2</sub> and 1/4 lb/sk Celloflake, followed with 100 sx Class 'G' with 3% KCl, 0.6% D-60, 0.2% D-136 and 1/4 lb/sk Celloflake. Cement in place 1548 hrs, 1-29-90. Procedure witnessed by Steve Rauzi, State of Arizona Bimal Shrestura/Alfred Peaches, Navajo Nation Operations Manager Date

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a Designation

Chuska Energy — Casing and Cementing Report

pg. l

Cudava 31	
	Trans Denth 5940
11 Name: BLACK ROCK #8	Hole Diameter 778°
ell Name: <u>BLACK ROCK</u> Dication: <u>SEC 18 T40W R29E</u>	Hole Diameter
cation:	
ype of Casing String: 51/2" PRODUCTION	Number of 2
and Casing String: 572 PRODUCTION	Stages
ype of Casing St surface, intermediate. est.)	
surrace, inco.	Stage Collar 3777.23
hoe Depth: 5434 62	Depth(s)
hoe Depth: 2/2/1	
D-5	
ementing Company.	
tace 1 20 Bbls FRESH WA	722
stage 1 Siurry Preceded with: 20 Bb/s FRESH WA	12.6
35/15 FOZ 1 67-GCL	# sks = 175
and Slucry Description: 0000	
47 D-17 17. C.Ch. 14 13k CELLO PERIO	# sks = 100
and Slurry Description: 35/65 PG2 W 67. GCL .47. D-M .17. C.Ch .44 /sk CELLO FLAKE Tail Slurry Description: CLM95 G Tail Slurry Description: CLM95 G	
137. KCL, .67. D-60, .27. D-136, 14-75K CELET - 137. KCL, .67. D-60, .27. D-136, 14-75K CELET - 137. KCL, .67. D-60, .27. D-136, 14-75K CELET - 137. KCL, .67. D-60, .27. D-136, 14-75K CELET - 137. KCL, .67. D-60, .27. D-136, 14-75K CELET - 137. KCL, .67. D-60, .27. D-136, 14-75K CELET - 137. KCL, .67. D-60, .27. D-136, 14-75K CELET - 137. KCL, .67. D-60, .27. D-136, 14-75K CELET - 137. KCL, .67. D-60, .27. D-136, 14-75K CELET - 137. KCL, .67. D-60, .27. D-136, 14-75K CELET - 137. KCL, .67. D-60, .27. D-136, 14-75K CELET - 137. KCL, .67. D-60, .27. D-136, 14-75K CELET - 137. KCL, .67. D-60, .27. D-136, 14-75K CELET - 137. KCL, .67. D-60, .27. D-136, 14-75K CELET - 137. KCL, .67. KCL, .67. KCL, .67. KCL, .6	- F
mixing Rate and Pressure: 3-1 50 Mix m Disclaced with: 50486, FRESH WATER, 90 64; M	250-720 051
$\sim 1.5$	, , , , , , , , , , , , , , , , , , ,
mixing Rate and Fresh Water, 90 by m Displaced with: 50486; FRESH Water, 90 by m Displacement Rate and Fressure: 5.7 - 2.1 box Displacement Rate and Fressure: 10:35 am, 1070 p Plug Down (time, pressure): 10:35 am, 1070 p	151
Pluc Down (time. Bresser - /	0.4
Comments: FLOAT HOLD OK.  Comments: FLOAT HOLD OK.  4Bbls Sturky CIRCULATED OUT AFTER STAG	E TOOL OPENED.
4 Bbls SLURRY CIPCULATED	
Stage 2 20 Bbls FRESH WAT	ER
Stage I Siurry Preceded with: 20 Bb/s FRESH WAT	
	GEC # 5/5 = 2/5
Siurry Preceded With: 35/65 PCZ & 67.0	$\frac{450}{100} = \frac{100}{100} = \frac{100}{100}$
1-20 n-112 17. C.Ch 14 SK/ (ELLOFIERE	# 513 = 100
47. D-112, 17. CCh, 1/4 SK ( ELLOFLEKE CLASS "G"	FF 71. 7- = 115
57 D.60. 27. D.136, 1/4 /3K ( == 10 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -	27.0 061
37. KeC, 167. D-60, .27. D-136 1/4 /SK (ELCOFCA)  37. KeC, 167. D-60, .27. D-136 1/4 /SK (ELCOFCA)  11. 100 Fine and 100 f	)
MINING HATER OIBHS FRESH WATER	bpm 280-860 psi
icianiacad war	1 /- 100
Displacement Rate and Pressure: 15:48, 1850 por Plug Down (time, pressure): 15:48, 1850 por Pressure Smins To CLOSE	SI TIETTO OK
Plus Down (time, Greener Smins To CLOSE	DV 7002, HELD UN
Displacement Rate and Free 15:48, 1850 por Plug Down (time, pressure): 15:48, 1850 por Pressure Smins To CLOSE Comments: Help Pressure Smins To CLOSE	
Stage 3 N/A Slurry Preceded with:	
Elucy Preceded with:	
3.4. /	# 5K5 =
Lead Slurry Description:	cu ft =
11935 3:0.1/	# 5ks =
Tail Slurry Description:	cu ft =
Tall Simile	
Mixing Rate and Pressure:	
Mixing Rate and Pressure.	
losentared With:	
Displaced with: Displacement Rate and Pressure: Plug Down (time, pressure):	
Pluc Down (time, pressure):	
Comments:	
Commercial	
	date:
Chuska Sucervisor:	
Chuska Suce.	

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ell Nam	Chuska Energy - Casing and Cemen	Total Decth:	pg. 2 5940
ocation.	SEC 18 TAUN R29E	Hole Diameter:	7784
	Description (OD, make, size, thread, specs)	Length (threads off)	:Depth Set
1 15T.	5/12" GUIDE SHOE 5/12" 19.5" K.55 LTEC USS	0.5 42.33	5934.12 5891.77
1 0 1.	FIGT FLORT COLLAR	2.00	5889.79
50 575	51/2" FLOAT COLLAR 51/2" 15.5" K-55 LT&C USS	2109.84	3779.95
1	542. DV 7000	2.72	3777 - 23
<del></del>			
<i>विवचन</i>	51/2" 15.5 # K-55 LT &C USS	3766.73	10.5
151	51/2" LENDING JULY	42-53	
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asing Hi Control	ardware (centralizers. scratchers - Mildle 177, 4,7,00,13,16,19)	, 22, 25, 28 <sup>2</sup> , 30	52 collere
ime rec paraxim ake up	asing string set at 12.5 below wired to run string: 6 hrs ate running rate: 60 ft/min Torque: 2390 \$(-165)  : New USS CASING PRIFTED ON RACK	KB (kb or gl)	•
	PINE LEVE		<del></del>

Chuska Energy - Pipe Tally

ESTATES |

, B

(1) (2) (3) (4) (5)  1	Well	Name:	BLACK	ROCK#8		:Date: <u>//28</u> :By: <u>B.N.G</u>	190
1	LUCA	rcion:	<u> </u>	70,270		By: <u>B.70-C</u>	(# <u>)</u>
## ## ## ## ## ## ## ## ## ## ## ## ##			(1)	(2)	(3)	(4)	(5)
2		1	47,33	40,54	43,04	.35,06	43,77
				43.77			
## 41.08 #4.67 #4.12 #2.23 #4.49 #2.50 #3.21 #2.21 #4.22 #4.49 #2.50 #4.12 #2.23 #3.23 #3.83 #3.		Ę					
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8							
7 49.47 43.55 43.34 43.40 39.18  9 39.76 42.87 43.57 43.27 40.28 39.21  sub total 4.5.19 42.64 427.29 403.53 430.18  1 43.71 40.15 43.22 43.31 44.18  2 49.74 41.47 32.97 43.34 38.09  3 4.86 43.55 42.97 43.34 42.81  4 44.86 43.55 42.90 43.40 42.81  5 44.12 43.55 42.10 43.11 40.16 43.76  6 44.12 43.57 42.10 43.11 40.16 43.76  9 44.12 43.54 42.11 40.16 43.76  9 44.12 43.54 42.11 40.16 43.76  9 44.12 43.54 42.11 40.16 38.81  1 33.16 42.87 43.27 43.27 43.70  1 33.16 42.87 43.27 43.27 43.70  1 33.16 42.87 43.27 42.13 42.70  1 33.16 42.87 43.27 42.81 43.70  1 33.16 42.87 43.27 42.81 43.70  1 33.16 42.87 43.27 42.81 43.70  1 33.16 42.87 43.27 42.81 43.70  1 33.16 42.87 43.27 42.81 43.70  1 33.16 42.87 43.27 42.81 43.70  1 43.67 52.34 42.81 43.70 38.76  1 43.67 52.34 42.81 43.70 38.76  1 43.67 43.28 42.81 43.70 38.76  1 43.67 43.28 42.81 43.70 38.76  1 43.67 43.28 42.81 43.70 38.76  1 43.65 42.52 38.10 43.77  1 43.67 43.28 42.81 43.70 38.76  1 43.67 43.28 42.81 43.70 38.76  2 43.81 43.72 42.81 43.77  2 43.67 43.28 42.81 43.70 38.76  2 43.81 43.72 42.81 43.77  3 43.67 43.28 42.81 43.70 38.76  2 43.67 43.28 42.81 43.70 38.76  2 43.67 43.28 42.81 43.70 39.71  2 43.67 43.28 42.81 43.70 39.71  2 43.67 43.28 42.81 43.70 39.71  2 43.67 43.28 42.81 43.70 39.71  2 43.67 43.28 42.81 43.70 39.71  2 43.67 43.28 42.81 43.70 39.71  2 43.67 43.28 42.81 43.70 39.71  2 43.67 43.28 42.81 43.70 39.71  2 43.67 43.28 42.81 43.70 39.71  2 43.67 43.28 42.81 43.70 39.71  2 43.67 43.28 42.81 43.70 39.71  2 43.67 43.28 42.81 43.70 39.71  2 43.67 43.28 42.81 43.70 39.71  2 43.67 43.28 42.81 43.70 39.71  2 43.67 43.88 42.81 43.70 39.71  2 43.67 43.88 42.81 43.70 39.71  2 43.67 43.88 42.81 43.70 39.71  2 43.67 43.88 42.81 43.70 39.71  2 43.67 43.68 42.81 43.70 39.71  2 43.60 43.88 42.81 43.70 39.71  2 43.60 43.88 42.81 43.70 39.71  2 43.60 43.88 42.81 43.70 39.71  2 43.60 43.88 42.81 43.70 39.71  2 43.60 43.88 42.81 43.70 39.71  2 43.60 43.88 42.81 43.70 39.71  2 43.60 43.88 42.81 43.70  2 43.60 43.88 42.81 43.70  2 43.60 43.88 42.81 43.70  2 43.60		1					
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1	sub	total	4:5.19	426,44	427.29	403.53	430.18
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Sub total 43.46 A20.17 A21.50 A21.13 A25.24  1 39.16 A20.17 A3.27 34.44 A2.03  2 43.25 A3.27 A3.27 A3.71  4 4.07 A3.04 A2.81 A3.78 A2.01  5 43.67 37.34 A2.81 A3.78 A2.01  6 43.77 A3.28 A2.81 A3.78  7 43.29 A3.13 A3.30 A3.58  9 42.76 A3.13 A3.30 A3.58  10 40.65 A2.52 B3.10 A3.79  10 2.81 A2.97 A2.97 A2.97 A2.97 A2.97 A2.97  10 2.81 A2.97 A2.97 A2.97 A2.97 A2.97  10 2.81 A2.97 A2.97 A2.97 A2.97 A2.97  10 2.81 B3.12 A2.97 A2.97  10 2.81 B3.13 A3.30 A3.50  10 2.81 A2.97 A2.97 A2.97 A2.97  10 2.81 A2.97 A2.97 A2.97  10 2.81 A2.97 A2.97 A2.97  10 2.81 B3.97  11 252.03 110.52  11 252.03 110.52			43.45		41.10		
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\$\frac{43.67}{43.77} \begin{array}{cccccccccccccccccccccccccccccccccccc				43.04	42.53	43.78	42.01
7 43.09 43.10 43.56 43.58 9 42.76 43.13 43.30 39.51 9 40.65 42.51 38.10 43.79 0 40.81 42.52 42.74 43.75  Sub total 41.54 42.75 425.84 427.32 255.08  Foll total 1265.31 1271.69 1274.43 1252.03 11/0.52  CD :WT GRACE THREAD MAKE LENGTH  Foll 2 101.2 Foll 3 101.4 Foll 5 1 15.5 15.5 15.5 17.60 1274.43 Foll 6 1 1 101.52				37.34		43,76	
7 43.09 43.10 43.56 43.58 9 42.76 43.13 43.30 39.51 9 40.65 42.51 38.10 43.79 0 40.81 42.52 42.74 43.75  Sub total 41.54 42.75 425.84 427.32 255.08  Foll total 1265.31 1271.69 1274.43 1252.03 11/0.52  CD :WT GRACE THREAD MAKE LENGTH  Foll 2 101.2 Foll 3 101.4 Foll 5 1 15.5 15.5 15.5 17.60 1274.43 Foll 6 1 1 101.52			43.77	43.28	42.83		44,05
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C 40.81 43.12 42.74 93.75  Sub total 421.64 424.98 425.84 427.32 255.08  Co :wt Grace Thread Make Length				42.52			
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CD   WT   GRADE   THREAD   MAKE   LENGTH	540	total	4-1.69	424.98	425.84	427.32	255-03
CD :WT GRACE THREAD MAKE LENGTH    101 1	col	total	1265.31	1271.69	1274.43	1252.03	
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1274.43 1214 1015			1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1 // // = 1	\ <del>-0:</del>	( <del></del>	
1252.03 1110,52			<del></del>				
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TOTAL 16173.98	COL	J	[ ——   ———	1			1 -1 -1 -1 -1
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Chuska Energy - Casing and Cementing Report

pg. 2

ell Name: BLACK KOEK # 8 coation: Sec. 18 T40N R29E  Lantity Description (OD, make, size, thread, specs)  / 85/8* Guior Shor 157 85/9* / 878 FLOAT COLLAR	Total Decth: Hole Diameter: Length (threads off)	12 1/4"
(00. make, size, thread, specs)  1 85/8" Gulos Shos  157 85/9".		
(00. make, size, thread, specs)  1 85/8" Gulos Shos  157 85/9".		
1 85/8" GUIDE SHOE	(threads off)	
151 85/9"	<b></b>	Set
15t 85/9°	1.0	500.99
	44.89	456.05
1 878 FLOAT COLLAR		455.05
9,7ts 878 244 J.55 STECCG.	440.55	14.5
	_	
1 878 LANDING JOINT	18.0	+3.5
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asing Hardware ((centralizers) scratchers.	. =ct.):	
asing Hardware (centralizers) scratchers. 5 about guide ske, 2nd \$ 4 % col	las.	
16-1	10	
op of casing string set at 14.5 below .	KB (kb or cl)	•
ime required to run string: 119 hrs		
sproximate running rate: 8 ft/min		
ake us Torsue: 2500 St-16.		
omments: CASING LANDED C 501.94 K	R	<del></del>
Camacires: Capital Cap	<u> </u>	
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Chuska Energy - Pipe Tally

Well Name Location:	BLACK K SEC 18-7	00K #8 40N, R29E	·	:Date:  /// :By: BN6,	790
	(1)	(2)	(3)	(4)	(5)
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	44.88			_	
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4	40.18	<u> </u>	<u> </u>		- [ <del></del>
	44.90				-f <del></del>
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.2	44.84		}		
9	44.88	_			_}
ú	44.74	_			
sub tota!	1440.54	•			
1	44.90				
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cel tota	605.02	1			Ì
	GD :WT	GRADE	THREAD	MAKE	LENGTH
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col 1	85/0 24	J55	SRO	110500	140.54
col 2	E		<b>.</b>		605,02
cel 3			-		
cal 4		_	1		. [
col 5		-			_[
	[			— ( ———	<del> </del>
,				TOTAL	605.02
/	INTS LEFT	<b>た</b> ) カテ		P.O.H.	1 00//-

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Chuska Energy - Casing and Cementing Report

pg. 1

Well Name: BLACK ROCK #8	Total Depth
Location: See 18 T40N R298	Hole Diameter 12'4"
Type of Casing String:	Number of ,
(surface) intermediate. ect.)	Stages/
Shoe Depth: 502'	Stage Collar
	Depth(s)
Cementing Company: $D \# S$	-
Stage 1 Siurry Preceded with: 10 Bb/s FRESH L	JATAR
Siurry Preceded with: 10 DD 1 Abor D	OH (EK
Lead Slurry Description: GLASS "G"	# sks = 360
W 220 CACIZ + 1/4#/SK CELLOPLAKE	
Tail Slurry Description: NA	cu ft = 414
	# 5K5 =
Mixing Rate and Pressure: 3.5 BPM	CU TE =
Displaced with: 29.5 BBIS FROSH WATER	
Displacement Rate and Fressure: 4 BM for	245841 1512PM 1 514- 300 1
Plug Down (time. pressure): 6:300m , 800	05;
Commission France Horn OK	<i>0</i> 37
CEMENT TOP APPROX 8' BELOW SURFACE, TOP	OCC . C. T. C. WARY
CEMENT TOP HOPICOX & IX-2000 SURFACE, TOP	OFF DITH SCORET.
Stage 2	
Slurry Preceded with:	
Sidiry Prededed within	
Lead Slucry Description:	# 5/6 =
Tail Slurry Description:	
	cu ft =
Mixing Rate and Pressure:	
Displaced with:	
Sisplacement Rate and Pressure:	
Plug Down (time, pressure):	
Comments:	
Stage 3	
Slurry Preceded with:	
Lead Sturry Description:	# sks =
	cu ft =
Tail Slurry Description:	
	cu ft =
Mixing Rate and Pressure:	
Disolaced with:	
Displacement Rate and Pressure:	
Plug Down (time. pressure):	
Conments:	
0.12	
Chuska Supervisor: BN-6/65	date: 1//2/95

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PECCOSES |

-72.24.000

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		CONS	AZ OIL & GAS ERVATION COMMISSION
	SUNDRY NOTICES	AND REPORTS ON WELLS	JAN 2 6 1990
. Name of Operator	Chuska Energy Company		Onti 15
. OIL WELL []	GAS WELL [X] OTHER	(Specify)	
	1190' FNL, 1190' FEL		
Sec. 18		29E County Apach	e, Arizone.
	dian Lease Number, or lessor's name if fee les		
. Field or Pool Name	Black Rock		
J. Check Appropriate	Box to Indicate Nature of Notice, Report, or		
	TICE OF INTENTION TO:	SUBSECUENT REPO	
TEST WATER SHUT-( FRACTURE TREAT	DIRECTIONAL DRILL		ATHLY PROGRESS
SHOOT OR ACIDIZE	<del></del>	SHOOTING OF ACIDIZING ALT	ENING CASING
REPAIR WELL	CHANGE PLANS	Operations - Su	ANDONMENT rface Casing X
(OTHER)		(Official)	
		(NOTE: Report results of multiple com or Recompletion Report 8	ind Log form.)
of starting any pro and zones pertinen	sposed work. If well is directionally drilled,	arly state all pertinent details, and give pertinent give subsurface locations and measured and true	t dates, including estimated date overticel depths for all markers
Drilled landed a	12½" hole to 503'. Ran 11 ;	ts 8-5/8" O.D., 24 #/ft, J-5 ex Class 'G' cement with 2% Co Topped up cement to surface	act, and % #/sx
			•
	7		•

Title Operations Manager Date

Form No. 25

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and Reports On Wells
File One Copy

1-16-90

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CEMENTING SERVICE REPORT TREATMENT NUMBER DOWELL SCHLUMBERGER INCORPORATED DS-496 PRINTED IN U.S.A. WELL DATA 85/R CSG/Liner Size WEIGHT <u>ज</u>्य इ TOTAL DEPTH DATOT CI CABLE FOOTAGE STATE GRADE MUD TYPE THREAD TOTAL 44.81 MUD DENSITY 2914 MUD VISC Disp Capacity NOTE: Include Foolage From Ground Level To Head in Disp ADDRESS\_315 orfice TYPE TYPE 8 DEPTH DEPTH 1 Mex 21 CODE 8740 458.55 Farmington TYPE TYPE  $\kappa_{M}$ DEPTH DEPTH 503. SQUEEZE JOB Head & Plugs by 11.5 this cont stury. Shutdown drop TYPE □ Double SIZE 29/14 ppls HOO primb blace DEPTH ☐ WEIGHT ☐ Single Check float TAIL PIPE: SIZE C GRADE □ Swage TUBING VOLUME ☐ THREAD IS CASING/TUBING SECURED? PSI CASING WEIGHT + SURFACE AREA

(3.14 x R2) 5-8. 4 Bbk CASING VOL. BELOW TOOL C NEW / USED TOP DAR DW LIFT PRESSURE Bols TOTAL BOT OR OW DEPTH PRESSURE LIMIT ANNUAL VOLUME Bbls FT No. of Centralizers RPM RECIPROCATE ---ROTATE JOB SCHEDULED FOR ARRIVE ON LOCATION VOLUME PUMPED esi TIME: 0040 DATE: 1-13-90 TIME: 0830 PAESSURE TIME: ASAF DATE: 1-12-90 TIME FLUID FLUID TYPE DENSITY SERVICE LOG DETAIL CASING TBG OR D.P. INCREMENT CUM 0001 to 2400 PREJOB SAFETY MEETING <u>3.0</u> 10 3.5 Cmt 15.8 OF 10 <u>0000</u> 0/019 disclacement <u> H20</u> 4.0 24.5 1-126 <u>5.5</u> 01031 <del>-</del>-Pressure quase not recorded REMARKS SLURRY MIXED
BBLS DENSITY COMPOSITION OF CEMENTING SYSTEMS YIELD CU FT/SK NO OF SACKS 2% S-1, 1/4 # Sx Dag Flake 360 1.15 4140,0 3. 4 5. MAX PRESSURE DENSITY VOLUME BREAKDOWN FLUID TYPE Cement Circulated To Surf. D YES D'NO D YES D'NO CIRCULATION LOST D RUNNING 80 D HESITATION SO TYPE DOIL OF PAGAS WELL 29/4 Bbls D BRINE WATER DISPLACEMENT VOL. STORAGE D INJECTION PSI FINAL BREAKDOWN C WIRELINE MEASURED DISPLACEMENT & Washed Thru Perls 11 YES +1 NO TO FT. SUPERVISOR CUSTOMER REPRESENTATIVE PERFORATIONS 16 Wilhers : Roger W Lewis Bruce Gies

658656**173** 

CENTRAL STATES

**(**)

# AZ OIL & GAS CONSERVATION COMMISSION

	SUNE	RY NOTICES	AND REPO	RTS ON WEI	LLS	JAN <b>2 6 1</b> 990	
Name of Operator	Chuska Ener	gy Company					
OIL WELL			(Specify)_				
	Black Rock	#8		·· · · ·			
Location	1190' FNL,	1190' FEL_					
- 18	Tun	ON Ros	29E	County	Apache	Arlzo	na.
Faderal, State or Ind	ian Lesse Number, or	lessor's name il fee le	ess	NOG 8702-1	116		
Field or Pool Name							
Check Appropriate I	Box to Indicate Nature		r Other Data	SUBSEC	DUENT REPORT C	)F:	
EST WATER SHUT-C HACTURE TREAT HIOOT OR ACIDIZE REPAIR WELL	DIRECTI PERFOR CHANGE		SHOOTIN	TE TREATMENT IG OR ACIDIZING	REPAIRI	Y PROGRESS NG WELL IG CASING NMENT	X
(OTHER)		<u> </u>	<del></del>	· Report results of		on on Well Completions form.)	—. ж
to BLN	at 8:00 p.m.			•			
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				•	•		
8. I hereby certify th	) int the foregoing is fill	e and correct.		•			
Signed A.	naka )a	me	Title C	perations M	anager Date	1-16-90	<del></del>
					TATE OF ARIZO		

Sundry Notices and Reports On Wells File One Copy

Form No. 25

OBSERVATION REPORT OF S. L. RAUZI ON BLACK ROCK #8

1,190 FNL & 1,190 FEL SEC 18-40N-29E

CASING AND CEMENTING, 1-12-90, early morning

Ran 8 5/8 inch casing to 502 feet.

Cemented with 360 sacks - did not circulate.

Lowered chain into hole and found top of cement about 8 feet below surface.

Cemented to surface with 2 inch hose lowered into hole.

BOPE, 1-12-90, evening

Test casing, casing head, kill line, choke (manifold) line, manifold, and BLIND RAMS at 950 PSI for 30 minutes and they held pressure. Test PIPE RAMS at 750 PSI for 30 minutes and they held pressure. Tested inside & outside choke line valves and inside & outside kill line valves at 750 PSI and they held pressure. Tested the KELLY COCK at 900 PSI and it held pressure. Tested operation of FLOOR SAFETY (STABBING) valve and it worked okay.

PRODUCTION CASING, 1-29-90, day

Ran 5 1/2 inch to 5935 feet with stage tool at 3785 feet.
Cemented FIRST STAGE with 675 sacks.
Circulated 4 hours between stages - circulated about 4 BBLS of cement.
Cemented SECOND STAGE with 975 sacks - circulated about 50 BBLS of cement.

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ANALYSIS

Danis with analysis

TECH, Inc. 333 East Man Farmington New Mexico 87401 505/327-3311

	"AI()" ANAL		
DATE:	17 November 1989	PAGE:	IK
то:	Chuska Energy Company 315 N. Behrend Farmington, NM 87401 Attn: Tom McCarthy	LAB NO.:	TECH, II 333 East N Forming New Me 87 505/327-3
Sample :	From Blackrock water	Date Sampled 11/10/89 Time Sampled	-

mg/1PARAMETER mg/1me/l PARAMETER Arsenic Acidity (CaCO<sub>2</sub>) Alkalinity (CaCO<sub>3</sub>) Barium Boron Bicarbonate Cadmium Carbonate Calcium Hydroxide Chromium, Hex Chloride Total Chlorine, Free Iron, Dissolved Total Total Fluoride Lead Nitrogen, Total Magnesium Nitrate (N) Mercury Ammonia (N) Potassium Phosphate, Ortho Selenium Total Silver Sulfur, Sulfate Sodium Sulfide BOD 5 21+/-14 Cross Alpha Gross Beta 54+/-7 Hardness (CaCO<sub>3</sub>) gr. Oil & Grease Oxygen, Dissolved Phenols Solids, Total Dissolved Suspended Settleable m1/1 mhos/cm Conductivity units pН NTU Turbidity Analyzed Date Analyzed 11/13/55 Received 11/10/89 Preserved?

REMARKS:

AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC, AND OURSELVES, ALL REPORTS ARE SURMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS, AND AUTHOR-IZATION FOR PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS RESERVED PENDING OUR WRITTEN APPROVAL.

(3)

APPLICATION TO DRIL	NON FOR PERMIT AZ OIL L Dx CONSERVATION	TO DRILL OR & GAS		STOMETT []
IAME OF COMPANY OR OPERATOR	OCT 2	3 1989		<u> </u>
Charles Energy Company				
Chuska Energy Company Address 315 N. Behrend	City	/ Farmington		State N.M.
Orilling Contractor				
(To Be Determined)				
300	DESCRIPTION OF	WELL AND LEASE		
ederal, State or Indian Lease Number, or if fe		Well number		Elevation (ground)
		n11- n1- 0		6225 GR
NOG 8702-1116  Nearest distance from proposed location o property or lease line:		Distance from proposed completed or applied—	l location to n or well on the	earest drilling,
• • •	feet	6 011		feet
1, 190 Number of acres in lease:		6,011 Number of wells on lear completed in or drilling	se, including the to this reserve	nis well, pir:
50,000			4	
	Name	A	idress	
Well location (give footage from section lines)	N/A 	nship-range or block and	SULVEA	Dedication (Comply with Rule 105
1190' FNL x 1190' FEL	1	3. T40N. R29E		
Black Rock Paradox		Apache		
Distance in miles, and direction from nearest t		_		
7 miles west-southwest of Proposed depth:	Teec Nos Pos. Ari Rotary or cable tools	izona	Approx. da	te work will start
59741	Rotary		Filing Fee	-1-1990 ol \$25.00
Bond Status Pending	Organization Report	Da assaabad	Attached	5. <del>-</del>
Amount \$25,000 Remarks:	On tite C	Or attached	TARRESTEG	
Primary zone is intended	11 will TD @ 6110	O'. If the Para	If the Pa adox is T	aradox appears not productive, the
well will be deepened to				
	ne penalty of perjury, state th	hat I am the Oper	ations M	lanager of the
well will be deepened to			by said comp	env to make this report; and that this
well will be deepened to  CERTIFICATE: 1, the undersigned, under the		and that I am authorized ts stated therein are type	by said comp	env to make this report; and that this
well will be deepened to  CERTIFICATE: 1, the undersigned, under the		and that I am authorized ts stated therein are type Signature	by said comp	env to make this report; and that this
well will be deepened to  CERTIFICATE: 1, the undersigned, under the		and that I am authorized ts stated therein are type Signature	by said compa	env to make this report; and that this
well will be deepened to  CERTIFICATE: I, the undersigned, under the		and that I am authorized to stated therein are true.  Signature	by said compactoriect and confect and conf	any to make this report; and that this mplese to the best of my knowledge
well will be deepened to  CERTIFICATE: I, the undersigned, under the  Chuska Energy Company, report was prepared under my supervision ar		and that I am authorized ts stated therein are type.  Signature  10-  Date	by said compactoriect and confect and conf	env to make this report; and that this
well will be deepened to  CERTIFICATE: I, the undersigned, under the  Chuska Energy Company, report was prepared under my supervision and supe	(company), nd direction and that the fac	and that I am authorized to stated therein are tube.  Signature  10- Date	by said compactorrect and confect and conf	any to make this report; and that this mplese to the best of my knowledge

(Complete Reverse Side)

SPONSOFF .

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1. Operator shall outline the dedicated advage for both oil and gas wells on the plat. AZ OIL & GAS 2. A registered professional engineer or land surveyor; required in the State of the Commission shall show on the plat the location of the well and certify this information in the space provided. 3. ALL DISTANCES SHOWN ON THE PLAT MUST BE FROM THE OUTER BOUNDARIES OF THE SECTION. 4. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES X 5. If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES\_\_\_\_\_NO\_\_\_\_. If answer is "yes," Type of Consolidation\_ 6. If the answer to question four is "no," list all the owners and their respective interests below: Land Description Owner CERTIFICATION I hereby certify that the information above is true and complete to the 1,1901 best of my knowledge and belief. \_ 1,190° Operations Manager Company Chuska Energy Company Date 10-18-8<u>9</u> I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed 8-17-89 Registered Professional Engineer and/or Land Surveyor Edgar L. Risenhoover Certificate No. 500 0 1320 1650 1980 2310 2640 1000 330 660 990 2000 1500 PROPOSED CASING PROGRAM Sacks Cement Type

**Bottom** 

500

5974

Top

0

0

Grade & Type

K-55

STC

K-55

STC

Weight

24#

15.5

Size of Casing

8 5/8

5 1/2

Cementing Depths

500 to Surface

5974 to 500

Class 'G'

Class 'G'

360 sks

872 sks

STATE OF ARIZONA

IL AND GAS CONSERVATION COMMISS.

REPORT ON PROPOSED OPERATIONS

PERMIT NO. 871

Chuska Energy Company 315 N. Behrend Farmington, NM 87401

Phoenix, Arizona January 2, 1990

Your proposal to drill well Black Rock No. 8 A.P.I. No. 02-001-20290 Section 18, T. 40N, R. 29E, G&SR B. & M., Black Rock field, Apache County, dated 10/18/89 received 10/23/89 has been examined in conjunction with records filed in this office.

#### THE PROPOSAL IS APPROVED PROVIDED:

- 1. THIS WELL SHALL NOT BE USED FOR SALT WATER DISPOSAL UNLESS AUTHORIZED BY THE COMMISSION AFTER NOTICE AND HEARING PURSUANT TO RULE 12-7-176.
- 2. Mud pits are constructed and lined in a manner that will prevent contamination of surface or subsurface waters.
- Drilling mud consistent with sound drilling practices shall be used at all times and sufficient amounts of lost circulation material shall be available at the drill site.
- 4. The well shall be cased and cemented in such a manner that will protect all zones that contain oil, gas, or fresh water.
- 5. Blowout prevention equipment shall be installed, tested, and maintained in a manner necessary to assure well control throughout the drilling, completion, or abandonment of the well.
- 6. An H<sub>2</sub>S safety company shall be on location from 4000' to T.D.
- 7. Sundry reports shall be filed as required.
- 8. Two sets of samples of all cores and cuttings shall be taken at a maximum interval of ten feet. One set each shall be shipped prepaid to:
  a. Oil & Gas Commission, 5150 N. 16th St., Ste. B141, Phoenix, AZ 85016.
  - b. Arizona Geological Survey, 845 N. Park Ave., Tucson, AZ 85719.
- 9. Samples and all logs and surveys of any description shall be filed within 30 days after the removal of the rig from the hole.
- 10. Application to Plug and Abandon (Form 9) shall be submitted to the Commission for approval prior to the beginning of operations to plug the well.
- 11. THIS COMMISSION SHALL BE NOTIFIED:
  - a. Immediately when drilling operations commence.
  - b. In time to witness the running and cementing of the surface casing.
  - c. In time to witness pressure testing of BOPE prior to drilling out of the surface casing.
  - d. In time to witness plugging and abandonment operations.

To witness operations, call 602-255-5161.

After office hours notify: Steve Rauzi, 602-864-9148 or Dan Brennan, 602-971-2909.

C.D. # 2578904, Valley National Bank

A COPY OF THIS REPORT AND THE PROPOSAL MUST BE POSTED AT THE DRILLER'S STATION PRIOR TO COMMENCING OPERATIONS.

RECORDS FOR WORK DONE UNDER THIS PERMIT ARE DUE WITHIN 30 DAYS AFTER THE WORK HAS BEEN COMPLETED OR THE OPERATIONS HAVE BEEN SUSPENDED.

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## PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION, STATE OF ARIZONA,

Го:		<u> </u>		CHOSKA EX	(OPERATOR)				
			ţ	o drill a we	ell to be know	wn as			
				Black	Rock #8				<u>-</u>
	· · · · · · · · · · · · · · · · · · ·				ELL NAME				
located_				1190' FN!	х 1190; Г.	EL			
Section_	18	_Township	400.	Range_	298.		Apache	County	Arizona.
The			NE <sup>1</sup> Z						of said
	T	and Dane	.a is dad	dicated to t	his well				
							gulations of the, 19 <sup>98</sup>		izona.
			•		OIL ANI		CONSERVATION		ission
					By /(V	11/6_	EXECUTIVE DIR	ECTOR	
PERMI	<b>.</b> 688	71.					<del>- 2.45</del>	· Brown and	
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FORM NO. 27

**A.P.I. NO.** 62-001-20290

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CHUSKA ENERGY COMPANY

10 POINT DRILLING PLAN

BLACK ROCK 1-18-40N29E WELL NO. 8 SECTION 18, TOWNSHIP 40N, RANGE 29E 1190' FNL, 1190' FEL APACHE COUNTY, ARIZONA

#### 1. SURFACE FORMATION

The geological name of the surface formation is the Morrison.

#### 2. <u>ELEVATION</u>

The surface elevation is 6225' GR / 6237' KB.

## 3. <u>ESTIMATED FORMATION TOPS</u>

<u>Depth</u>	<u>Formation</u>	<u>Sub Sea</u> Elevation
Surface 1515' 2525' 2893' 3535' 4255' 4848' 4907' 4994'	Chinle De Chelle Organ Rock Cutler Hermosa Ismay Lower Ismay Desert Creek	+ 6237' + 4722' + 3712' Water + 3344' + 2702' + 1982' + 1389' Gas + 1330' Gas + 1243' Gas
5131' 5284' 5410' 5606' 5670' 5825' 5934' 5974'	Akah Barker Creek Pinkerton Trail Molas Mississippi Mississippi Dolomite Ouray Total Depth	+ 1106' Gas/Water + 953' Gas + 827' Gas + 631' + 567' + 412' + 303' + 263'

Note: Well will T.D. at 5646'. If Paradox appears unproductive the well will be deepened to T.D. at 5974' for use as SWD well in the Mississippi Dolomite.

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#### 4. PROPOSED CASING/CEMENTING PROGRAM

	Size	<u>Weight</u>	<u>Grade</u>	Coupling Coupling
Surface:	8 5/8"	24 lb/ft	K-55	STC
Production:	5 1/2"	15.5 lb/ft	K-55	STC

#### <u>Surface Cementing:</u>

360 sx Class G cement with 2%  $C_{aC12}$ , & 1/4#/sx Celloflake. Weight 15.8 ppg, yield 1.15 ft $_3$ /sx.

#### Production Cementing:

#### <u>First Stage</u>

T.D. to 3200'. Lead with 113 sx 35:65 POZ cement with 6% Gel, .5% D-127 Flac, 1% CaCl2, 1/4#/sx Celloflake. Tail with 486 sx Class G, 3% KCL, .6% D-60 Flac, 1/4#/sx Celloflake.

#### Second Stage

3200' to surface casing shoe. 304 sx 35:65 POZ cement with 6% Gel, .5% D-127 Flac, 1% CaCl2, 1/4#/sx Celloflake.

#### SWD Cementing

DV Tool at 3800'

## First Stage

TD to 3800'. Lead with 282 sx 35:65 POZ cement with 7% Gel, .5% D-127 Flac, 1% CaCl2, 1/4#/sx Celloflake. Tail with 160 sx Class G, 3% KCL, .6% D-60 Flac, 1/4#/sx Celloflake.

#### Second Stage

3800' to Surface Casing Shoe. 429 sx 35:65 POZ cement with 7% Gel, .5% D-127 Flac, 1% CaCl2, 1/4#/sx Celloflake.

All cement volumes will be recalculated after examination of caliper log.

BLOWOUT PREVENTER (See attached schematics)

As no abnormal pressures are anticipated, a 2000 psi BOP system would be sufficient for the drilling of this well. However, due to availability constraints, a 3000 psi system will be used, as per the attached Exhibits "A" and "B". This will be a 10" x 900 Series double ram preventer, equipped with a set of pipe and blind rams.

An accumulator system, with a pressure capacity sufficient to operate the rams three complete cycles without rig power, will be required by the contractor.

#### 6. PROPOSED MUD PROGRAM

### Surface to 3500'

Native solids, weight 8.3-8.7 ppg, with gel sweeps as necessary to clean hole.

### 3500' to Total Depth

Low solids non dispersed system with Polymer. 8.6-8.9 ppg. Fluid loss 15 CC's or less. Fluid loss will be 10 CC's or less drilling across Paradox Zone.

#### 7. AUXILIARY EQUIPMENT

- A. A kelly cock will be utilized while drilling this well, with handle available on the rig floor.
- B. Floor (stabbing) valves will be available, on the rig floor at all times, with necessary subs to fit all of the drilling assemblies.
- C. Mud will be used to drill this well. No abnormal pressures are expected. A mud logging unit will be utilized while drilling this hole.

#### 8. WELL EVALUATION

Open hole electric logging program will consist of a minimum of dual lateral log, SP, Gamma Ray, Caliper, FDC-CNL Lithodensity from TD to 4000'.

Drill stem testing will be as per well site geologist's recommendations, based on shows. A mud logging unit will be utilized during drilling.

9. ABNORMAL PRESSURES/GAS

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No abnormal pressures are anticipated. Monitoring of gas and hydrocarbon shows will be by wellsite mud logging unit. An  $\rm H_2S$  safety company will be on location from 4000' to T. D.

10. TIMING

CESTE FEE ZN

CHILDREN.

The drilling and evaluation of this well will take 18 days. Anticipated spud date is 1-1-90.

DETAILED DRILLING PROGRAM

BLACK ROCK NO. 8

DATE:

October 6, 1989

WELL NAME:

Black Rock 1-18-40N29E

WELL NO: 8

LOCATION:

1190' FNL, 1190' FEL

Section 18, Township 40N, Range 29E

Apache County, Arizona

**ELEVATION:** 

6225' GR / 6237' KB

TOTAL DEPTH:

5646'if Paradox is productive; 5974' if a SWD

well.

PROJECTED HORIZON: Molas Shale at 5646', Ouray at 5974'

#### DRILLING, CASING AND CEMENTING PROGRAM

- 1. Move in rotary tools and notify BLM of intent and time of
- Rig up rotary tools. Drill mouse hole and rat hole. Mix mud prior to spudding well.
- 3. Drill 12 1/4" hole to 500 +/-. Use cellar jet to remove mud and cuttings from hole. Surveys will be taken on wire line to ensure deviation control. Use fresh water gel/chemical mud for drilling surface hole. Run 8 5/8" surface casing to T.D. Displace casing with mud prior to cementing. Reciprocate casing prior to cementing.
- 4. Cement with sufficient volume to circulate cement to surface, as per surface cementing program detailed in 10-point drilling plan.
- 5. W.O.C. a minimum of 4 hours prior to nippling up BOP stack and related equipment. See BOP schematics for details. Minimum total T.O.C. time is 12 hours.
- 6. Pressure testing of BOP and casing will be to 600 psig for 30 minutes. Pressure test manifold and all related equipment prior to drilling shoe joint.
- 7. Reduce hole to 7 7/8". Drill to T.D. at 5646'.

8. Open hole logs will be run and evaluated. Drill stem testing will be as per wellsite geologist's recommendation. If well is commercial, 5 1/2" casing will be run to T.D.

- 9. If well is not commercial, drilling will continue to a T.D. at about 5974', open hole logs will be run and evaluated over zones from T.D. up to about 5600' to determine if use of the well for SWD is possible.
- 10. Cement will be in two stages. Cement as per production or SWD cementing program in 10-point drilling plan. W.O.C. and circulate between stages 4 hours.
- 11. Remove BOP, set slips, cut off casing, install well head and release drilling rig.
- 12. If well is non-productive it will be plugged and abandoned as per State, BLM and Navajo Tribal stipulations.

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#### **BLACK ROCK FIELD**

Operator:

THE PROPERTY OF

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**RIM Southwest Corporation** 

Bond Company\*:

Indian lands, evidence of bond posted with BIA

RLI Insurance Co. \$150,000 BIA Nationwide Bond No. RLB0003993

Date of Bond:

11/26/01

Date approved:

\* Pursuant to Commission motion of October 31, 1997, no bond required with State of Arizona upon evidence of bond posted with the BIA.

## Permits covered by this bond posted with the BIA:

Dry Mesa Field <u>077</u> <u>106</u> <u>115</u> 852 907

Black Rock Field







Jane Dee Hull Governor State of Arizona

## Arizona Geological Survey 416 W. Congress, Suite 100

416 W. Congress, Suite 100 Tucson, Arizona 85701 (520) 770-3500



Larry D. Feliows Director and State Geologist

February 13, 2001

**CERTIFIED MAIL** 

Mr. Robert L. Vesco Vice-President RIM Southwest Corporation 5 Inverness Drive East Denver CO 80112

Re: Release of State-wide Performance Bond CD #2578904

Dear Mr. Vesco:

This will acknowledge evidence of RIM Southwest Corporation's bonding with the U.S. Department of the Interior, Bureau of Indian Affairs. As a result, the referenced certificate of deposit and executed release form are enclosed.

Sincerely,

Steven L. Rauzi

Oil & Gas Administrator

Stewn C. Rarie

Enclosures

SECURITIES SAFEKEEPIN 1700 WEST WASHINGTON ST. - PHOENIX, ARIZONA 85007

	STATE AGENCY NO.
STATE AGENCY ARIZONA GEOLOGICAL SURVEY/OIL&	ر GAS COM1. State Treasurer's Use Only
	thust corp
1850 MT DIABLO BLVD STE 640	
WALNUT CA 94500	
DOMESTIC FOREIGN	
DEPO	OSIT
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C.D. ASSIGNMENT MUST BE ATTACHED UNLESS C.D.	IS PAYABLE TO STATE TREASURER
REI	LEASE
C.D. NO.: 2578904 / ACCT NO.: 8272-4968 / BANK: VALLEY NATIONAL BANK OF ARIZONA	
MATURITY DATE: 05/30/90 INTERES	ST RATE: 7.30 % * BOB
AMOUNT \$ 25,000.00 /	
AMOUN! \$ 25,000.00 /	
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STATE TREASURER VALIDATION NO.	STATE AGENCY AUTHORIZATION
	STATE AGENCY AUTHORIZATION
STATE TREASURER VALIDATION NO.	STATE AGENCY AUTHORIZATION  BY Jamy 13, Julian 05 Feb 01
RECEIVED THE ABOVE RELEASE  BY Jany D. Julian 051-1301	STATE AGENCY AUTHORIZATION  BY Jamy 13, Julian 05 Feb 01  Authorized Signature
STATE TREASURER VALIDATION NO.  RECEIVED THE ABOVE RELEASE	STATE AGENCY AUTHORIZATION  BY Jamy 13, Julia 05 Feb 01  Authorized Signature  STATE TREASURER AUTHORIZATION
RECEIVED THE ABOVE RELEASE  BY Ann A. Allon 051-1301 Authorized Signature Date  ARIZONA GEOLOGICAL SURVEY	STATE AGENCY AUTHORIZATION  BY Jamy N. Julia 05 Feb 01  Authorized Signature  STATE TREASURER AUTHORIZATION  BY JULIAN JULIAN
STATE TREASURER VALIDATION NO.  RECEIVED THE ABOVE RELEASE  BY Janu 13. 2011  Authorized Signature Date	STATE AGENCY AUTHORIZATION  BY Jony 13, Julian 05 Feb 01  Authorized Signature  STATE TREASURER AUTHORIZATION
RECEIVED THE ABOVE RELEASE  BY Ann A. Allon 051-1301 Authorized Signature Date  ARIZONA GEOLOGICAL SURVEY	STATE AGENCY AUTHORIZATION  BY Jamy N. Julia 05 Feb 01  Authorized Signature  STATE TREASURER AUTHORIZATION  BY JULIAN JULIAN
STATE TREASURER VALIDATION NO.  RECEIVED THE ABOVE RELEASE  BY January D. Dullan 05 1-1 01  Authorized Signature Date  ARIZONA GEOLOGICAL SURVEY  Bank or Firm	STATE AGENCY AUTHORIZATION  BY Jamy N. Mon. 05 Feb 01  Authorized Signature  STATE TREASURER AUTHORIZATION  BY Authorized Signature  BANK AUTHORIZATION
STATE TREASURER VALIDATION NO.  RECEIVED THE ABOVE RELEASE  BY January D. Dullan 05 1-1 01  Authorized Signature Date  ARIZONA GEOLOGICAL SURVEY  Bank or Firm	STATE AGENCY AUTHORIZATION  BY Jamy N. Julia 05 Feb 01  Authorized Signature  STATE TREASURER AUTHORIZATION  BY AUTHORIZATION  Authorized Signature



Jane Dee Hull Governor

## State of Arizona

## Arizona Geological Survey 416 W. Congress, Suite 100

416 W. Congress, Suite 100 Tucson, Arizona 85701 (520) 770-3500



Larry D. Fellows Director and State Geologist

February 5, 2001

Ms. Debby Harrington RIM Southwest Corporation 5 Inverness Drive East Denver CO 80112

Dear Ms. Harrington:

This will acknowledge receipt of documentation of name change, Organization Report (Form1) and updated Operator's Certificate of Compliance and Authorization to Transport Oil or Gas from Lease (Form 8).

I have enclosed approved duplicate originals of Form 8 for your files.

Sincerely,

Steven L. Rauzi Oil & Gas Administrator

Stem ( Raiz

**Enclosures** 

# RIM SOUTHWEST CORPORATION 5 INVERNESS DRIVE EAST ENGLEWOOD, COLORADO 80112 303-799-9828

January 30, 2001

Mr. Steven Rauzi
Oil & Gas Program Administrator
Arizona Geological Survey
416 W. Congress, #100
Tucson, AZ. 85701

Re: RIM Southwest Corporation

Dear Mr. Rauzi,

As you requested, please find an Organization Report and documentation evidencing the name change from Harken Southwest Corporation for RIM Southwest Corporation.

Also enclosed is Form 8, in duplicate, for NOG 8707-1139, NOG 8707-1140 and NOG 8707-1142.

Please call me at (303) 799-9828, extension 305, if you have any questions or need anything further. Thank you for your assistance.

Very truly yours,

ARIZONA GEOLOGICAL

Debby Harrington
Senior Landman

n 3 a zasonosen

The RIM Companies
5 Inverness Drive East
Englewood, Colorado 80112
303-799-9828
Fax 303-799-4259
E-Mail: rvesco@rimop.com



Oil & Gas Acquisitions & Management Rocky Mountains / Texas

January 25, 2001

Mr. Steven Rauzi
Oil & Gas Program Administrator
Arizona Geological Survey
416 W. Congress, #100
Tucson, AZ. 85701

(520) 770-3500) Fax (520) 770-3505

RE: Bonding for RIM Southwest Corporation

Dear Mr. Rauzi:

Enclosed please a copy of the approval letter dated May 18, 2000, from the United States Department of the Interior, Bureau of Indian Affairs for RIM's \$150,000 nationwide bond.

Additionally, RIM Southwest Corporation, (formerly known as Harken Southwest Corporation) has a \$25,000 certificate of deposit, certificate # 2578904, with the State of Arizona, maturing April 2, 2001. Please take the necessary action to release this certificate of deposit.

If you need any further information regarding the above referenced information, please contact me at extension 206. Thank you for your help.

Sincerely yours,

Robert L. Vesco, Vice-President Secretary/Treasurer

abet & Wesco

The RIM Companies **5 Inverness Drive East** Englewood, Colorado 80112 303-799-9828 Fax 303-799-4259 E-Mail: rvesco@rimop.com



Oil & Gas Acquisitions & Management Rocky Mountains / Texas

January 25, 2001

Mr. Steven Rauzi Oil & Gas Program Administrator Arizona Geological Survey 416 W. Congress, #100 Tucson, AZ. 85701



RE: Name Change of Harken Southwest Corporation

Dear Mr. Rauzi:

Enclosed please find the State of New Mexico filed copy of "Articles of Amendment to the Articles of Incorporation" changing "Harken Southwest Corporation's" name to "RIM Southwest Corporation" ("RIM"). The corporation's federal tax identification number has not changed (85-0284260). RIM's address is 5 Inverness Drive East, Englewood, Colorado 80112.

Additionally, the officers of RIM Southwest Corporation are as follows:

President

Stephen W. Rector

Vice President

Rene' Morin William J. Holcomb

Vice President

VP, Secretary/Treasurer Robert L. Vesco

Additionally, enclosed is a copy of RIM Operating, Inc. and RIM Offshore, Inc.'s "United States Department of the Interior, Bureau of Indian Affairs, Nationwide Oil and Gas Bond Number RLB0001937" in the amount of \$150,000, along with Bond Rider to Assume Liability Number 1 and RLI Insurance Company's Power of Attorney. With your concurrence, RIM would like to add RIM Southwest Corporation as an additional principal to this bond. Please coordinate with us regarding this matter.

If you need any further information regarding the above referenced information, please contact me at extension 206.

Sincerely yours,

Robert L. Vesco, Vice-President

Secretary/Treasurer

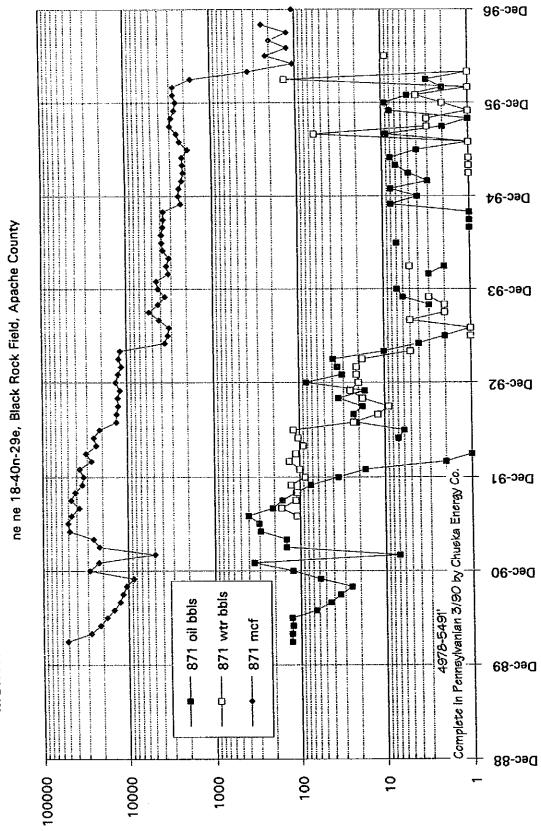
CHUSKA ENERGY COMPANY Operator \_ Bond Company VALLEY NATIONAL BANK ARIZONA Amount

Bond No. C.D. 7#2518964 Data Approved 12/01/89 Amount \$25,000 ermits covered by this bond: 559 DATE 581 (PHA 11-21-95) 610 (P & A 5/10/91) 615 868 869 expired (J&A 5/90) 873 (P & A. 8/4/93) expired 875 881

Active bund file

MONTHLY PRODUCTION AT 8 BLACK ROCK (871), ARIZONA: MAR 1990 - DEC 1996

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ENERGY CORPORATION

March 11, 1994



GEÖLOGICAL SURVEY

State of Arizona Oil & Gas Conservation Commission 845 N. Park Avenue, Suite 100 Tucson, AZ 85719

NOG 8702-1139 Re:

NOG 8702-1140

NOG 8702-1142

Black Rock Well No.'s 1, 3, 5, 8 and 12

()

#### Gentlemen:

Please be advised that Harken Southwest Corporation no longer has a Farmington, New Mexico office. Therefore, please direct all future correspondence, regarding regulatory issues, to the undersigned at the letterhead address.

Thank you for your cooperation.

Verý trulý yours,

Rachelle Montgomery
Production Administrator

RM/jkw

ENERGY CORPORATION

March 11, 1994

State of Arizona Oil & Gas Conservation Commission 845 N. Park Avenue, Suite 100 Tucson, AZ 85719

NOG 8702-1139 Re:

NOG 8702-1140

NOG 8702-1142

Black Rock Well No.'s 1, 3, 5, 8 and 12

Gentlemen:

Please be advised that Harken Southwest Corporation no longer has a Farmington, New Mexico office. Therefore, please direct all future correspondence, regarding regulatory issues, to the undersigned at the letterhead address.

Thank you for your cooperation.

Very truly yours,

Production Administrator

RM/jkw

GEÖLOGICAL SURVEY

871



## HARKEN SOUTHWEST CORPORATION

(formerly Chuska Energy Company)

March 2, 1994



Mr. Steven Rauzi
Oil & Gas Program Administrator
Arizona Geological Survey
845 Northpark Ave., Suite 100
Tucson, Arizona 85719

Re: Chuska Energy Company-Arizona Statewide Bond for Drilling of Wells

Dear Mr. Rauzi:

Please be advised that with regard to the above referenced bond we are herewith enclosing documentation relating to a name change. Chuska Energy Company has now changed its name to Harken Southwest Corporation. Copies of the official documentation relating to this change of name are enclosed. We would appreciate the Arizona Geological Survey changing their records to style the above referenced bond as follows:

Harken Southwest Corporation, formerly Chuska Energy Company

Sincerely

HARKEN SOUTHWEST CORPORATION

Dale Brooks Treasurer

DB:le Enclosures cc:Bruce N. Huff

2505 NORTH HIGHWAY 360 - SUITE 800 • GRAND PRAIRIE, TEXAS 75050

P.O. DRAWER 612007 • DALLAS, TEXAS 75261 • PHONE: (817) 695-4900 • FAX: (817) 652-4455

TENTED OF



## HARKEN SOUTHWEST CORPORATION

(formerly Chuska Energy Company)

January 23, 1994

We are pleased to announce that Chuska Energy Company has changed its name to Harken Southwest Corporation. This is in line with the February, 1993 merger with Harken Exploration Company.

Harken Southwest Corporation will continue to be located at 3315 Bloomfield Highway, Farmington, New Mexico 87401. Our telephone number will remain (505) 326-5525.

Please reflect this name change on all future correspondence.

Thank you for your assistance in this matter. We look forward to working with you as Harken Southwest Corporation.

Sincerely,

BARRY A. WIELAND Operations Manager





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## CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY . FARMINGTON, NEW MEXICO 87401 . PHONE: (505) 326-5525

#### FAX COVER LETTER

Date:	August 17, 1993	
	Barry A. Wieland	Facsimile # (505) 325-5423
	Steve Rauzi	Transmitted from: Ricoh Fax 35
	***********	
Numbe	er of Pages (including this	page) _4
Please	e advise at the above telep	one number if any problems are encountered.
14444	ge/instructions:	
Messa	iActition gardine.	

Enclosed please find a Halliburton District Laboratory Water Analysis Data Sheet on Chuska Energy Company's Black Rock #3, 5, and #8 water production. Said samples were collected from the separator dump, due to low water production from the three referenced wells.

If you should have any further questions, please don't hesitate to let me know. I look forward to meeting you on Friday.

Sincerely,

Barry A. Wieland Operations Manager

Encl:

C





Fife Symington Governor

## State of Arizona

## Arizona Geological Survey

845 North Park Avenue, #100 Tucson, Arizona 85719 (602) 882-4795

Larry D. Feliows Director and State Geologist

February 3, 1992

0

871

Mr. Bob Hand Dry Mesa Corporation 7255 Corporate #907 Houston, Texas 77036

Dear Bob:

Enclosed is the information you requested this morning, the completion reports for the Black Rock wells number 5 and 8.

Don't hesitate to let me know if I can provide additional information.

Sincerely,

Steven L. Rauzi

Steve

Oil & Gas Program Administrator

**Enclosures** 

Black Rock 8
photos

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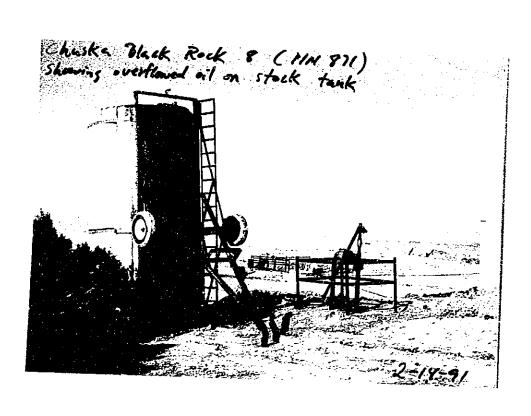
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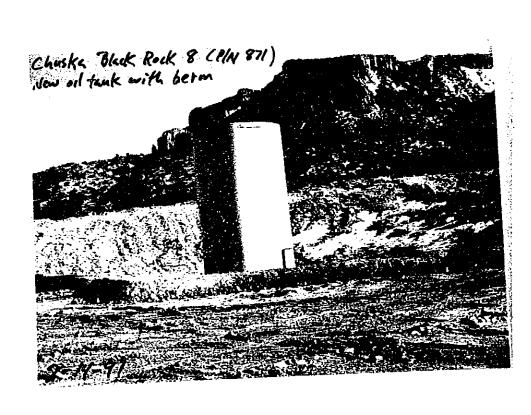
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Chuska Black Rock 8 (PIN 871)

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O.

February 18, 1991

MEMORANDUM TO FILE

5 tum L. Raig

FROM: Steven L. Rauzi

Oil & Gas Specialist

SUBJECT: Inspect results of oil spill cleanup Chuska's Black Rock 8, Permit No. 871

On Thursday, February 14, 1991, I visited the Black Rock 8 location and took several photographs which are attached to this memorandum. The purpose of my visit was to examine the results of the cleanup of the January 31 oil spill.

There is no current evidence of the oil spill except for an oil stain on the overflowed stock tank. A new stock tank with larger capacity is in place and the contaminated soil is stockpiled at the reserve pit. Small berms surround both the new stock tank and the location.

BUREAU OF LAND MANAGEMENT A JL & GAS NMSO 10/7/87 REPORT OF UNDESTRABLE EVENCESTRATION SOMMISSION DATE OF OCCURRENCE/DISCOVERY: 1-31-91 TIME TOP OCCURRENCE: 1300 HRS DATE REPORTED TO BLM: 1-31-91 TIME REPORTED: 1526 HRS BLM OFFICE REPORTED TO (RESOURCE AREA/DISTRICT OFFICE/OTHER): FARMINGTON LOCATION: SECTION: 18 T. 40N R. 29E MERIDIAN APACHE STATE: ARIZONA WELL NAME: BLACK ROCK #8 COUNTY: OPERATOR: CHUSKA ENERGY COMPANY SURFACE OWNERSHIP (FEDERAL/INDIAN/FEE/STATE): NAVAJO TRIBAL MINERAL OWNERSHIP (FEDERAL/INDIAN/FEE/STATE): NAVAJO TRIBAL LEASE NO.: NOG 8702-1116 UNIT/CA NO.: \_\_\_\_\_ RIGHT-OF-WAY NO. \_\_\_\_ TYPE OF EVENT, CIRCLE APPROPRIATE ITEM(S): BLOWOUT, FIRE, FATALITY, INJURY, PROPERTY DAMAGE, OIL SPILL, SALTWATER SPILL, TOXIC FLUID SPILL, OIL AND SALTWATER SPILL, OIL AND TOXIC FLUID SPILL, SALTWATER AND TOXIC FLUID SPILL, GAS VENTING, UNCONTROLLED FLOW OF WELLBORE FLUIDS, OR OTHER (SPECIFY): CAUSE OF EVENT: WELL HAD PRODUCED NO MORE THAN 5-10 BBL/DAY FOR LAST 1 1/2 YEARS. PRODUCED MORE THAN 200 BBL OVERNIGHT. OVERFLOWED 210 BBL STOCK TANK. CAUSE AND EXTENT OF PERSONAL INJURIES/CAUSE OF DEATH(S): EFFECTS OF EVENT: OIL DRAINED OFF LOCATION DOWN ROAD APPROX 2/10 MILE AND ON HILLSIDE APPROX 2/10 MILE. MOST OF SPILL ON SNOW/FROZEN GROUND ACTION TAKEN TO CONTROL THE EVENT: SHUT IN WELL. BUILD DIKE ACROSS ROAD TO PREVENT FURTHER DRAINAGE WHILE CLEANUP OPERATIONS IN PROGRESS. LENGTH OF TIME TO CONTROL EVENT AND SUBSEQUENT CLEAN-UP: IMMEDIATE CONTROL CLEANUP OPERATIONS COMMENCED IMMEDIATELY AND WILL BE COMPLETED 2-1-91. CONTAMINATED SOIL TO BE STOCKPILED ON LOCATION FOR BURIAL IN RESERVE PIT. VOLUME(S) OF FLUIDS (SPECIFY): DISCHARGED: 20-25 BBL OIL CONSUMED: RECOVERED: 20-25 BBL OIL OTHER FEDERAL, STATE, AND LOCAL GOVERNMENT AGENCIES NOTIFIED (INCLUDE NAMES AND DATE/TIME): ARIZONA OIL AND GAS COMMISSION (1-31-91/1535 HRS), NAVAJO MINERALS (1-31-91/1542 HRS). MESSAGE FOR NAVAJO EPA (1-31-91/1549 HRS). ACTION THAT HAS BEEN OR WILL BE TAKEN TO PREVENT RECURRENCE: PLACE LARGER STOCK TANK ON LOCATION. NIGHT PUMPER TO INCLUDE WELL ON ROUNDS EACH NIGHT.

SIGNATURE OF OPERATOR (IF REPORT SUBMITTED BY OPERATOR)

DATE: 2-1-91 TITLE: OPERATIONS ENGINEER

C

January 31, 1991

Permit 871

MEMO TO FILE

RE: Oil spill at Black Rock 8

Chris Hill of Chuska Energy Company called to report that approximately 10 barrels of crude oil was spilled today at the Black Rock 8 well. The spill was the result of an overflow of the collection tank at the well. Chuska will also notify the Navajo Tribe of the spill.

Since completion of the well in March 1990 oil production has averaged 5 to 10 barrels of oil a day. The oil was being produced into a 200 barrel tank. However, in the last which caused the tank to overflow.

The spill basically flowed over snow and Chuska is now engaged in clean-up operations. Pursuant to Rule R12-7-120 Chuska will follow-up this verbal notification with a written report decribing the event, the clean up, and the method of disposal. We will personally inspect the spill area upon completion of the clean-up operation.

Steven L. Rauzi, 1/31/91

Permit 871

January 31, 1991

MEMO TO FILE

RE: Oil spill at Black Rock 8

Chris Hill of Chuska Energy Company called to report that approximately 10 barrels of crude oil was spilled today at the Black Rock 8 well. The spill was the result of an overflow of the collection tank at the well. Chuska will also notify the Navajo Tribe of the spill.

Since completion of the well in March 1990 oil production has averaged 5 to 10 barrels of oil a day. The oil was being produced into a 200 barrel tank. However, in the last 24 hours approximately 200 barrels of oil were produced which caused the tank to overflow.

The spill basically flowed over snow and Chuska is now engaged in clean-up operations. Pursuant to Rule R12-7-120 Chuska will follow-up this verbal notification with a written report decribing the event, the clean up, and the method of disposal. We will personally inspect the spill area upon completion of the clean-up operation.

Steven L. Rauzi, 1/31/91

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315 N. BEHREND • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

February 28, 1990

State of Arizona Attn: Mr. Dan Brennan Oil & Gas Conservation Commission 5150 N. 16th Street Suite B141 Phoenix, Arizona 85016

Re: Black Rock No. 5 & Black Rock No. 8

Dear Sir:

Enclosed are Open Hole Logs on the subject wells. We ask that you treat these as Tight Holes.

If you have any questions please feel free to call.

Sincerely,

Thomas R. McCarthy,

Senior Reservoir Engineer

TRM/brc enclosures

file:trm\1BR5&81g.41

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315 N. BEHREND • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

March 5, 1990

CONSERVATION COMMISSION

MAR 7 1990

Arizona Oil & Gas Commission 5110 North 16th Street Suite B141 Phoenix, Arizona B5016

Ref:

Well Completion Report: Black Rock #8

Gentlemen

attached for your examination and approval is the original and two copies of the subject Report.

Please advise if you require additional information concerning this application.

Sincerely,

Donald S. Barnes Operations Manager

DSB/cswh

File: C:\WP\CSWH\BLAKROCK\BR5PCSG.CVF



315 N. BEHREND • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

March 2, 1990

Arizona Oil & Gas Commission 5110 North 16th Street Suite B141 Phoenix, Arizona 85016 AZ OIL & GAS CONSERVATION COMMISSION

MAR / 1930

Ref: Black Rock #8: Sundry Notice: First Sale of Gas

Gentlemen

Attached for your examination and approval is the original and two copies of the subject Sundry Notice.

Please advise if you require additional information concerning this application. Chuska will greatly appreciate your prompt consideration.

Sincerely,

Donald S. Barnes Operations Manager

DSB/cswh

File: C:\WP\CSWH\BLAKROCK\1STGASCO.MPE

5459556



# CHUSKA ENERGY COMPANY

315 N. BEHREND • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

AZ OIL & GAS CONSERVATION COMMISSION

FEB 13 1990

February 9, 1990

Arizona Oil & Gas Commission 5110 North 16th Street Suite B141 Phoenix, Arizona 85016

Ref: Sundry Notice: Black Rock #8 - Production Casing

Gentlemen

attached you will find the original and two copies of the subject Sundry Notice.

Sincerely

Donald S. Barnes Operations Manager

DSB/cswh

File: C:\WP\CSWH\BR8PCSG.SUN



315 N. BEHREND • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

AZ OIL & GAS CONSERVATION COMMISSION

JAN 2 6 1990

January 16, 1990

Arizona Oil and Gas Commission 3110 North 19th Avenue, Suite 190 Phoenix, Arizona 85015

RE: Sundry Notice, Black Rock #8 - Spud

Gentlemen:

Enclosed you will find the original and six copies of the subject Sundry Notice.

Very Truly Yours

Donald'S. Barnes Operations Manager

DSB:cswh Encl.

File:DSB\SUBR8SPD



 PHONE: (505) 326-5525
 AZ OIL & GAS
 CONSERVATION COMMISSION 315 N. BEHREND • FARMINGTON, NEW MEXICO 87401 •

JAN 26 1990

January 16, 1990

Arizona Oil and Gas Commission 3110 North 19th Avenue, Suite 190 Phoenix, Arizona 85015

RE: Sundry Notice, Black Rock #8 - Surface Casing

Gentlemen:

Enclosed you will find the original and six copies of the subject Sundry Notice.

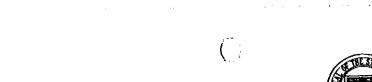
Very Truly Yours

Donald S. Barnes Operations Manager

DSB:cswh

Encl.

File:DSB\SUBR8SPD





#### Oil and Gas Conservation Commission

STATE OF ARIZONA

5150 N. 16th STREET, SUITE B-141 PHOENIX, ARIZONA 85016 PHONE: (602) 255-5161

January 2, 1990

Mr. Thomas R. McCarthy Chuska Energy Company 315 N. Behrend Farmington, NM 87401

RE: Black Rock No. 5, State Permit No. 868
Black Rock No. 6, State Permit No. 869
Black Rock No. 7, State Permit No. 870
Black Rock No. 8, State Permit No. 871

Dear Tom:

Enclosed are the filing fee receipt, the approved Application for Permit to Drill, Permit to Drill, and Report on Proposed Operations for each of the referenced wells. Please note that we have not approved these wells for use as salt water disposal wells.

Upon successful completion of any of these wells, please send in a completed copy of the enclosed Form 4 for our records. I am also enclosing copies of other forms you will need when you have a successful gas well completion (Forms 3, 7, 8, 11, 12, 13, 14, 18, 20).

Sincerely,

Siteren L. Ranig

Steven L. Rauzi Oil & Gas Specialist

Enclosures

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315 N. BEHREND • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

AZ OIL & GAS CONSERVATION COMMISSION

DEC 2 1 1999

December 18, 1989

Mr. Daniel J. Brennan Arizona Oil and Gas Conservation Commission 5150 North 16th Street, Suite B141 Phoenix, Arizona 85016

RE: Black Rock Nos. 5, 6, 7, 8, 9, 10, and 11 Drilling Permit Applications

Dear Dan:

Pursuant to our conversation on December 15th, I am enclosing a check for \$175.00 for the Applications to Drill the subject wells.

Please advise me if there is additional information or requirements for the approval of the subject APD's.

Sincerely,

Thomas R. McCarthy Reservoir Engineer

TRM:bnp
Enclosure
File:TRM\DRPERBR

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ASSIGNMENT TO ARIZONA STATE TREASURER
SECURITY IN LIEU OF CASH DEPOSIT FOR COMPLIANCE WITH
SECTION 35-155 ARIZONA REVISED STATUTES

AZ OIL & GAS
CONSERVATION COMMISSION

NAME  CITY  TERRITORY  STATE  1250 N.E. Loop 410 Suife 710  San Antonio  CITY  TELEPHONE NUMBER  TEXAS  STATE  TEXAS  STATE  TEXAS  STATE  TEXAS  TELEPHONE NUMBER  TEXAS  TEXAS  TELEPHONE NUMBER  TEXAS  FINANCIAL INSTITUTION  TELEPHONE NUMBER  TEXAS  TOURTY  TOU		TOTAL RE	VISED STATUTES	;	Dro.
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STREET ADDRESS  Bexat  Texas  S12-821-6132  CITY  Texas  S1ATE  TEXAS  S12-821-6132  CITY  TEXAS  S1ATE  TEXAS  TELEPHONE NUMBER  THE PROBLEM TO the Treasurer of the State of Arizona, hereinafter referred to as ASSIGNOR, does hereby assign and transfer to the Treasurer of the State of Arizona, hereinafter referred to as ASSIGNOR and the principal, but not to the interest of any kind whatsoever, owned or held by Assignor in the principal, but not to the interest of the State of Arizona association of ASSIGNOR to long as such funds remain on deposit in the Valley National Bank of Arizona Valley Center Office  FINANCIAL INSTITUTION  Whose address is 241 N. Central  FINANCIAL INSTITUTION  Arizona, as evidenced by an account in the amount of Theories Texas of Texas of County of Co	NAME Chuska Energy Compan	v			
COUNTY  Texas  SIATE  S12-21-6194  CITY  TERASURER, all right, tille and interest of any kind whatsnever, owned or held by Assignor in the principal, but not in the interest hereinafter accruing after the date of bits assignment in the insured account of Assignor in the principal, but not in the interest valley National Bank of Arizona - Valley Center Office  Valley National Bank of Arizona - Valley Center Office  Financial Institution  Whose address is 241 N. Central  Financial Institution  Arizona, as evidenced by an account in the amount of STREET ADDRESS  CITY  COUNTY  Arizona, as evidenced by an account in the amount of STREET ADDRESS  Arizona, as evidenced by an account in the amount of STREET ADDRESS  CITY  COUNTY  Arizona, as evidenced by an account in the amount of STREET ADDRESS  CITY  COUNTY  Arizona, as evidenced by an account in the amount of STREET ADDRESS  CITY  COUNTY  Arizona, as evidenced by an account in the amount of STREET ADDRESS  CITY  COUNTY  Arizona, as evidenced by an account in the amount of STREET ADDRESS  CITY  COUNTY  Arizona, as evidenced by an account in the amount of STREET ADDRESS  CITY  COUNTY  Arizona, as evidenced by an account in the amount of STREET ADDRESS  CITY  COUNTY  Arizona, as evidenced by an account in the amount of STREET ADDRESS  CITY  COUNTY  Arizona, as evidenced by an account in the amount of STREET ADDRESS  CITY  COUNTY  Arizona, as evidenced by an account in the amount of STREET ADDRESS  Arizona  Arizona  Arizona  Arizona  Arizona  Arizona  Arizona  Arizona  FRAST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNOR  County and the stream of the stream of the Stream of the Stream of the Stream of the Arizona  FRAST ENDORSEMENT RECEIPT FOR STREAM OF ASSIGNOR STREAM of the Arizona  FRAST ENDORSEMENT RECEIPT FOR SECURITY AND DRECTION TO PAY EARNINGS  Arizona	<u></u>	· · · · · · · · · · · · · · · · · · ·			
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hereinalter referred to as ASSIGNOR, does hereby assign and transfer to the Treasurer of the State of Aircons, the TREASURER, all right, title and interest of any kind whatstoever, owned or held by Assignor in the principal, but not in the interest of the State of Aircons of ASSIGNOR to long as such funds remain on deposit in the hereinster secreting after the date of this assignment in the insured account of ASSIGNOR to long as such funds remain on deposit in the valley National Bank of Arizona – Valley Center Office  Valley National Bank of Arizona – Valley Center Office  Financial Institution  whose address is 241 N. Central  STREET ADDRESS  Phoenix  Nations, as evidenced by an account in the amount of Twenty-Five Thousand  Arizona, as evidenced by an account in the amount of Twenty-Five Thousand  COUNTY  Arizona, as evidenced by an account in the amount of Twenty-Five Thousand  Arizona, as evidenced by an account in the amount of Twenty-Five Thousand  COUNTY  Arizona, as evidenced by an account in the amount of Twenty-Five Thousand  COUNTY  Arizona, as evidenced by an account in the amount of Twenty-Five Thousand  COUNTY  Arizona, as evidenced by an account in the amount of Twenty-Five Thousand  COUNTY  Arizona, as evidenced by an account in the amount of Twenty-Five Thousand  COUNTY  Arizona, as evidenced by an account in the amount of Twenty-Five Thousand  Thousand Treating the Arizona  Arizona  Arizona  Arizona  Arizona  Arizona  Arizona  FIRSTENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNOR  FASSIGNOR Executive Vice  FIRSTENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNOR  FASSIGNOR Executive Vice  FIRSTENDORSEMENT RECEIPT FOR SECURITY AND Account. We begine of the wind provided any notice of the assignment and public right of set-off against such account. We expree the assignment to the assignment to the assignment to the account and public right of set-off against such account. We applicable to this institution.  And Arizona  NOTARY FIGLIC SIGNATURE  Arizona  NOTARY FIGLIC SIGNATURE  Arizona  NOTARY FIGLIC SIGNATUR	Bexar		San	Antonio	
bereinafter referred to as ASSIGNOR, does bereby assign and transfer to the Treasurer of the State of Arizona, hereinafter referred to as the TREASURER, all right, title and interest of any kind whatsoever, owned or held by Assignor in the principal, but not in the interest of the state of Arizona as such funds remain on deposit in the insured account of ASSIGNOR to long as such funds remain on deposit in the Pincipal, but not in the interest valley National Bank of Arizona — Valley Center Office  FINANCIAL INSTITUTION  Whose address is 241 N. Central  FINANCIAL INSTITUTION  Arizona, as evidenced by an account in the amount of CITY COUNTY  Arizona, as evidenced by an account in the amount of Twenty-Five Thousand  Arizona, as evidenced by an account in the Application of the Pederal Savings and Loas Insurance Corporation. This assignment is given as security for COUNTY  Arizona as evidenced by an account in the Application of the Pederal Savings and Loas Insurance Corporation. This assignment is given as security for County with ARS 27-501 to 539 and with the Rules of the Oil and Gas Conservation  Dated this 2014 day of November 19 89 at Application of the Pederal Savings and Loas Insurance Corporation. This assignment is given as security for County and Treasurer of the Savings and Loas Insurance Corporation. This assignment is given as security for County with Arizona Arizona  Arizona 19 89 at Application of the Oil and Gas Conservation  IMPORTANT-SIGNATURE OF ASSIGNOR  FIRST ENDORSEMENT RECEIPT ON ONITIES OF ASSIGNMENT  Executive Vicual as shown in and by the assignment above. We have related as apply to records to show the interest of the Treasurer of the Saving and the Above Industried account. We have not of the Applications of the Treasurer adopted in accordance with applicable laws and the law applicable to this institution.  Anizona Applications of the Treasurer adopted in accordance with applicable laws and the law applicable to this institution.  ITILE  NOTABLY FUBLIC SIGNATURE  SECOND ENSORSEMENT - R	-001111	exas			C12
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Walley National Bank of Arizona - Valley Center Office  FINANCIAL INSTITUTION  Whose address is 241 N. Central FINANCIAL INSTITUTION  STREET ADDRESS  CITY COUNTY  COUNTY  Arizona, as evidenced by an account in the amount of Wentry-Five Thousand  Arizona, as evidenced by an account in the amount of Wentry-Five Thousand  Arizona, as evidenced by an account in the amount of Wentry-Five Thousand  Arizona, as evidenced by an account in the amount of Wentry-Five Thousand  Arizona, as evidenced by an account in the amount of Wentry-Five Thousand  Arizona, as evidenced by an account in the amount of Wentry-Five Thousand  Arizona, as evidenced by an account in the amount of Wentry-Five Thousand  Arizona, as evidenced by an account in the amount of Wentry-Five Thousand  Arizona, as evidenced by an account in the amount of Wentry-Five Thousand  Arizona as evidenced by an account in the amount of Wentry-Five Thousand  Arizona as evidenced by an account in the amount of Wentry-Five Thousand  Arizona as evidenced by an account in the amount of Wentry-Five Thousand  Arizona as evidenced by an account in the amount of Wentry-Five Thousand  Arizona Country-Five Thousand  Arizona Arizona  NAME OF ASSIGNOS EXACTIVE OF ASSIGNOR  Arizona  NAME OF ASSIGNOS EXACTIVE OF ASSIGNOR  Arizona  NAME OF ASSIGNOS EXACTIVE OF ASSIGNOR  Arizona  NAME OF ASSIGNOS EXACTIVE OF ASSIGNOR  Arizona  NAME OF FINANCIAL INSTITUTION  MARY PUBLIC SIGNATURE  Arizona  Arizona  NAME OF FINANCIAL INSTITUTION  SIGNATURE OF OFFICER OF FINANCIAL INSTITUTION  Arizona  NAME OF FINANCIAL INSTITUTION  Arizona  NAME OF FINANCIAL INSTITUTION  SECOND ENSORSEMENT - RECEIPT FOR SECURITY AND DIRECTION TO PAY EARNINGS  Every submired and directed the assignment above is hereby submovized and directed the account identified in the assignment above is hereby submovized and directed the account identified in the assignment above is hereby submovized and directed the institution identified in the assignment is above and the account identified in the assignment above.	the TREASURED to as ASSIGNOR does be		TE	LEPHONE NUME	)E b
Walley National Bank of Arizona - Valley Center Office  FINANCIAL INSTITUTION  Whose address is 241 N. Central FINANCIAL INSTITUTION  STREET ADDRESS  CITY COUNTY  COUNTY  Arizona, as evidenced by an account in the amount of Wentry-Five Thousand  Arizona, as evidenced by an account in the amount of Wentry-Five Thousand  Arizona, as evidenced by an account in the amount of Wentry-Five Thousand  Arizona, as evidenced by an account in the amount of Wentry-Five Thousand  Arizona, as evidenced by an account in the amount of Wentry-Five Thousand  Arizona, as evidenced by an account in the amount of Wentry-Five Thousand  Arizona, as evidenced by an account in the amount of Wentry-Five Thousand  Arizona, as evidenced by an account in the amount of Wentry-Five Thousand  Arizona, as evidenced by an account in the amount of Wentry-Five Thousand  Arizona as evidenced by an account in the amount of Wentry-Five Thousand  Arizona as evidenced by an account in the amount of Wentry-Five Thousand  Arizona as evidenced by an account in the amount of Wentry-Five Thousand  Arizona as evidenced by an account in the amount of Wentry-Five Thousand  Arizona Country-Five Thousand  Arizona Arizona  NAME OF ASSIGNOS EXACTIVE OF ASSIGNOR  Arizona  NAME OF ASSIGNOS EXACTIVE OF ASSIGNOR  Arizona  NAME OF ASSIGNOS EXACTIVE OF ASSIGNOR  Arizona  NAME OF ASSIGNOS EXACTIVE OF ASSIGNOR  Arizona  NAME OF FINANCIAL INSTITUTION  MARY PUBLIC SIGNATURE  Arizona  Arizona  NAME OF FINANCIAL INSTITUTION  SIGNATURE OF OFFICER OF FINANCIAL INSTITUTION  Arizona  NAME OF FINANCIAL INSTITUTION  Arizona  NAME OF FINANCIAL INSTITUTION  SECOND ENSORSEMENT - RECEIPT FOR SECURITY AND DIRECTION TO PAY EARNINGS  Every submired and directed the assignment above is hereby submovized and directed the account identified in the assignment above is hereby submovized and directed the account identified in the assignment above is hereby submovized and directed the institution identified in the assignment is above and the account identified in the assignment above.	hereingten all right, title and interest of	ign and transfer to the Treat	films of all a	- 1.01112	, CK
Walley National Bank of Arizona - Valley Center Office  FINANCIAL INSTITUTION  Whose address is 241 N. Central FINANCIAL INSTITUTION  STREET ADDRESS  CITY COUNTY  COUNTY  Arizona, as evidenced by an account in the amount of Wentry-Five Thousand  Arizona, as evidenced by an account in the amount of Wentry-Five Thousand  Arizona, as evidenced by an account in the amount of Wentry-Five Thousand  Arizona, as evidenced by an account in the amount of Wentry-Five Thousand  Arizona, as evidenced by an account in the amount of Wentry-Five Thousand  Arizona, as evidenced by an account in the amount of Wentry-Five Thousand  Arizona, as evidenced by an account in the amount of Wentry-Five Thousand  Arizona, as evidenced by an account in the amount of Wentry-Five Thousand  Arizona, as evidenced by an account in the amount of Wentry-Five Thousand  Arizona as evidenced by an account in the amount of Wentry-Five Thousand  Arizona as evidenced by an account in the amount of Wentry-Five Thousand  Arizona as evidenced by an account in the amount of Wentry-Five Thousand  Arizona as evidenced by an account in the amount of Wentry-Five Thousand  Arizona Country-Five Thousand  Arizona Arizona  NAME OF ASSIGNOS EXACTIVE OF ASSIGNOR  Arizona  NAME OF ASSIGNOS EXACTIVE OF ASSIGNOR  Arizona  NAME OF ASSIGNOS EXACTIVE OF ASSIGNOR  Arizona  NAME OF ASSIGNOS EXACTIVE OF ASSIGNOR  Arizona  NAME OF FINANCIAL INSTITUTION  MARY PUBLIC SIGNATURE  Arizona  Arizona  NAME OF FINANCIAL INSTITUTION  SIGNATURE OF OFFICER OF FINANCIAL INSTITUTION  Arizona  NAME OF FINANCIAL INSTITUTION  Arizona  NAME OF FINANCIAL INSTITUTION  SECOND ENSORSEMENT - RECEIPT FOR SECURITY AND DIRECTION TO PAY EARNINGS  Every submired and directed the assignment above is hereby submovized and directed the account identified in the assignment above is hereby submovized and directed the account identified in the assignment above is hereby submovized and directed the institution identified in the assignment is above and the account identified in the assignment above.	resembled accruing after the date of this assistance	cind whatsoever, owned or	held by A	rizona, hereinafter	t telemek -
whose address is 241 N. Central  FINANCIAL INSTITUTION  STREET ADDRESS  CITY  COUNTY  Arizona, as evidenced by an account in the amount of the property of the county of t	and the first	the insured account of AS	Signor of Assignor in the	he principal, but r	Int in the tare
whose address is 241 N. Central  STREET ADDRESS  CITY  COUNTY  Arizona, as evidenced by an account in the amount of Twenty-Five Thousand  Arizona, as evidenced by an account in the amount of Twenty-Five Thousand  Arizona, as evidenced by an account in the amount of Twenty-Five Thousand  Arizona, as evidenced by an account in the amount of Twenty-Five Thousand  Arizona, as evidenced by an account in the amount of Twenty-Five Thousand  Arizona, as evidenced by an account in the amount of Twenty-Five Thousand  Arizona, as evidenced by an account in the amount of Twenty-Five Thousand  Arizona, as evidenced by an account in the amount of Twenty-Five Thousand  Arizona, as evidenced by an account in the amount of Twenty-Five Thousand  Federal Deposit Insurance Corporation on the Federal Savings and Loan Insurance Corporation. This assignment is given as security for Countilistic Countilities of the Oil and Gas Conservation  MERCHANTAT-SIGNATURE OF ASSIGNOR  Anizona  Arizona  FIRST ENDORSEMENT, RECEIPTION NOTICE OF ASSIGNOR  Arizona Signament in said Treasurer of the above-identified account. We have noted quarteroad as the interest of the Treasurer of the above-identified account. We have retained a capy of this document. We hereby certify that we have not are cived any notice of lice, neumanner, hold, claim or other obligation against the above-identified account prior to its assignment to its desired any notice of lice, neumanner, hold, claim or other obligation against the above-identified account prior to its assignment to its desired by the Rules and Regulations of the Treasurer adopted in accordance with applicable laws and the law applicable to this institution.  NAME OF FINANCIAL INSTITUTION  ANDRESSIONATURE OF OFFICER OF FINANCIAL INSTITUTION  ANDRESSIONATURE OF OFFICER OF FINANCIAL INSTITUTION  ANDRESSIONATURE OF OFFICER OF FINANCIAL INSTITUTION  ANDRESSIONATURE OF OFFICER OF FINANCIAL INSTITUTION  ANDRESSIONATURE OF OFFICER OF FINANCIAL INSTITUTION  ANDRESSIONATURE OF OFFICER OF FINANCIAL INSTITUTION  ANDRE	Valley National Bank	E	station of your as	uch funds remain	On deposit to at
STREET ADDRESS  STREET ADDRESS  CITY  COUNTY  Arizona, as evidenced by an account in the amount of Twenty-Five Thousand  Federal Depois Insurance Carporation or the Federal Savings and Loan Insurance Corporation. This saxignment is given as security for compilation.  Dated this 30-H day of November 1987, at Federal Savings and Loan Insurance Corporation. This saxignment is given as security for Commission.  Dated this 30-H day of November 1987, at Federal Society Company.  IMPORTANT-SIGNATURE OF ASSIGNOR  This Assignment shall be signed by the PIRST ENDORSEMENT, RECEIPT FOR NOTICE OF ASSIGNOR EXACTLY AS SHOWN ABOVE  FIRST ENDORSEMENT, RECEIPT FOR NOTICE OF ASSIGNMENT  The assignment to said Treasurer of the State of Arizona, hereinafter referred to sath CTREASURER, of written notice of iten, encumbrance, hold, claim or other obligation signates the above identified account and by the Roles and Regulations of the Treasurer adopted in accordance with applicable to this institution.  Alizona MAME OF FINANCIAL INSTITUTION  SIGNATURE OF OFFICER OF FINANCIAL INSTITUTION  SIGNATURE OF OFFICER OF FINANCIAL INSTITUTION  SECOND ENSORSEMENT - RECEIPT FOR SECURITY AND DIRECTION TO PAY EARNINGS  Leaving the assignment above is hereby authorized and the account identified in the assignment above is hereby authorized and the account identified account for this institution.  NAME OF FINANCIAL INSTITUTION  SIGNATURE OF OFFICER OF FINANCIAL INSTITUTION  SIGNATURE OF OFFICER OF FINANCIAL INSTITUTION  SIGNATURE OF OFFICER OF FINANCIAL INSTITUTION  SIGNATURE OF OFFICER OF FINANCIAL INSTITUTION  SECOND ENSORSEMENT - RECEIPT FOR SECURITY AND DIRECTION TO PAY EARNINGS  Leaving ment above is hereby authorized and directed and din		or Arizona - Valle	V Centar occ.		an actionit in the
STREET ADDRESS  CITY  COUNTY  dollars (\$ 25,000   Identified by account number   8272-4968   Which account is insured by the   Federal Depoisi Insurance Corporation or the Federal Savings and Loss Insurance Corporation. This assignment is given as security for   Countission.  Dated this   30-1   day of   1000   1000   1000   1000   1000   1000    IMPORTANT - SIGNATURE OF ASSIGNOR  This Assignment shall be signed by the   Chuska, Energy Company   19 89 , at   1000   1000   1000   1000    IMPORTANT - SIGNATURE OF ASSIGNOR   19 89 , at   1000   1000   1000   1000    IMPORTANT - SIGNATURE OF ASSIGNOR   19 80 , at   1000   1000   1000    FIRST ENDORSEMENT   RECEIPT FOR NOTICE OF ASSIGNOR   1000   1000   1000    Ceccipt is hereby acknowledged to the Treasurer of the State of Anxona, hereinafter referred to as the TREASURER, of written notice of creating at shown in and by the assignment above. We finder retained a copy of this document. We hereby certify that we have not revised by the Rules and Regulations of the Treasurer adopted in accordance with applicable to this institution.   1000	whose address to 2/2	FINANCIAL INSTITU	TION	<u>e</u>	
Arizona, as evidenced by an account in the amount of Twenty-Five Thousand  GOINTY  GOUNTY  GOUNTY  GOINTY  GOINTY  GOINTY  GOUNTY  GOINTY  GOINT	241 N. Central			<del></del>	
Arizona, as evidenced by an account in the amount of thousand tollars (\$ 25,000 ) identified by account number 827-204968 which account is insured by the federal Deposit Insurance Corporation or the Federal Savings and Loan Insurance Corporation. This assignment is given as security for Cormission.  Dated this 30 day of November 1989, at Security For Notice of the Oil and Gas Conservation. This assignment is given as security for Christophian Savings and Loan Insurance Corporation. This assignment is given as security for Notice of the Oil and Gas Conservation. The Conservation of the State of Assignment Assignment is given as security for Notice of Insuka, Fine IR Company.  This Assignment is a signment above. The State of Anisona, hereinafter referred to as the TREASURER, of written notice of invited any notice of lien, encumbrance, hold, claim or other, obligation against the above-identified account prior bits assignment to its assignment to such any notice of lien, encumbrance, hold, claim or other, obligation against the above-identified account prior bits assignment to its assignment to its assignment and future right of sel-oil against such account. We agree to make payment as reminded by the Rules and Regulations of the Treasurer adopted in accordance with applicable laws and the law applicable to this institution.  NAME OF FINANCIAL INSTITUTION  SIGNATURE OF OFFICER OF FINANCIAL INSTITUTION  NAME OF FINANCIAL INSTITUTION  SIGNATURE OF OFFICER OF FINANCIAL INSTITUTION  NOTARY PUBLIC SIGNATURE  NOTARY PUBLIC SIGN	DIRECT ADDRESS	Phoeni Phoeni	ix		
which account is insured by the Company which account is insured by the Commission.  Dated this Sold day of Movember 1927-9968 which account is insured by the Rules of the Oil and Gas Conservation  Dated this Sold day of Movember 19 At Mark OFASSIGNOR  FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNOR EXACTLY AS SHOWN ABOVE  FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNOR EXACTLY AS SHOWN ABOVE  Described and sworn before me this Mark OfFASSIGNOR Exactly as SHOWN ABOVE of Treasurer of the State of Aprona, hereinafter referred as the TREASURER, of written notice of iterative of item or other, obligation against the above identified account prior to its assignment to the Treasurer and futive right of set-off against such account. We agree to make payment as restricted by the Rules and Regulations of the Treasurer adopted in accordance with applicable laws and the law applicable to this institution.  SIGNATURE OF OFFICER OF FINANCIAL INSTITUTION  NOTARY PUBLIC SIGNATURE  NAME OF FINANCIAL INSTITUTION  SECOND ENSORSEMENT - RECEIPT FOR SECURITY AND DIRECTION TO PAY EARNINGS  Letter is acknowledged of the assignment above and the account identified in the assignment above is hereby submired and direct and the stream of t	Arizona, as evidenced by	CITY		Mariposa	
which account is insured by the Company which account is insured by the Commission.  Dated this Sold day of Movember 1927-9968 which account is insured by the Rules of the Oil and Gas Conservation  Dated this Sold day of Movember 19 At Mark OFASSIGNOR  FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNOR EXACTLY AS SHOWN ABOVE  FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNOR EXACTLY AS SHOWN ABOVE  Described and sworn before me this Mark OfFASSIGNOR Exactly as SHOWN ABOVE of Treasurer of the State of Aprona, hereinafter referred as the TREASURER, of written notice of iterative of item or other, obligation against the above identified account prior to its assignment to the Treasurer and futive right of set-off against such account. We agree to make payment as restricted by the Rules and Regulations of the Treasurer adopted in accordance with applicable laws and the law applicable to this institution.  SIGNATURE OF OFFICER OF FINANCIAL INSTITUTION  NOTARY PUBLIC SIGNATURE  NAME OF FINANCIAL INSTITUTION  SECOND ENSORSEMENT - RECEIPT FOR SECURITY AND DIRECTION TO PAY EARNINGS  Letter is acknowledged of the assignment above and the account identified in the assignment above is hereby submired and direct and the stream of t	dollars (\$ 25,000	T		COUNTY	
Commission.  Dated this 201 day of November 1989 and with the Rules of the Oil and Gas Conservation  MINORTANT-SIGNATURE OF ASSIGNOR  This assignment is given as security for and Gas Conservation  MINORTANT-SIGNATURE OF ASSIGNOR  This Assignment shall be signed by the  Chuska Energy Company  MANY OF ASSIGNOR EXCELLY AS SHOWN ABOVE  FIRST ENDORSEMENT RECEIPTION NOTICE OF ASSIGNMENT  The assignment to said Treasurer of the State of Anixona, heteinafter referred to as the TREASURER, of written notice of assignment to assignment above. We have noted our records to show the interest of the Treasurer in said to a treasurer. We further hereby waive any current and fujure right of set-off against the above-identified account prior to its assignment to it assignment to the Rules and Regulations of the Treasurer adopted in accordance with applicable laws and the law applicable to this institution.  Clay of Treasurer adopted in accordance with applicable laws and the law applicable to this institution.  NOTARY FUBLIC SIGNATURE  SECOND ENSORSEMENT - RECEIPT FOR SECURITY AND DIRECTION TO PRIVE ENGINEERS  SECOND ENSORSEMENT - RECEIPT FOR SECURITY AND DIRECTION TO PRIVE ENGINEERS  SECOND ENSORSEMENT - RECEIPT FOR SECURITY AND DIRECTION TO PAY FARNINGS  Light first acknowledged of the assignment above and the assignment above is hereby authorized and direct account identified in the assignment above. The Assignment of the assignment and the pay of the account identified in the assignment above. The Assignment and the pay and the pay for the pay	Federal Deposit Insurance Count	number 0000	Thousand		
IMPORTANT - SIGNATURE OF ASSIGNOR  This Assignment shall be signed by the  Chuska, Energy Company  NAME OF ASSIGNOR EXACTLY AS SHOWN ABOVE  FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNOR EXACTLY AS SHOWN ABOVE  FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNOR EXACTLY AS SHOWN ABOVE  SIGNATURE OF ASSIGNOR EXACTLY AS SHOWN ABOVE  FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNOR EXACTLY AS SHOWN ABOVE  FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNMENT  Chuska, Energy Company  NAME OF ASSIGNOR EXACTLY AS SHOWN ABOVE  SIGNATURE OF ASSIGNOR EXACTLY AS SHOWN ABOVE  FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNMENT  SIGNATURE OF ASSIGNOR EXACTLY AS SHOWN ABOVE  FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNMENT  SIGNATURE OF ASSIGNOR EXACTLY AS SHOWN ABOVE  FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNMENT  FIRST ENDORSEMENT RECEIPT FOR SECURITY AND DIRECTION TO FAX EARNINGS  Indicate the standard of	compliance with ARS 27 501 the Federal S	avines and 1 2-4968		n.h.f. t	· 1
IMPORTANT - SIGNATURE OF ASSIGNOR  This Assignment shall be signed by the  Chuska, Energy Company  NAME OF ASSIGNOR EXACTLY AS SHOWN ABOVE  FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNOR EXACTLY AS SHOWN ABOVE  FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNOR EXACTLY AS SHOWN ABOVE  SIGNATURE OF ASSIGNOR EXACTLY AS SHOWN ABOVE  FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNOR EXACTLY AS SHOWN ABOVE  FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNMENT  Chuska, Energy Company  NAME OF ASSIGNOR EXACTLY AS SHOWN ABOVE  SIGNATURE OF ASSIGNOR EXACTLY AS SHOWN ABOVE  FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNMENT  SIGNATURE OF ASSIGNOR EXACTLY AS SHOWN ABOVE  FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNMENT  SIGNATURE OF ASSIGNOR EXACTLY AS SHOWN ABOVE  FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNMENT  FIRST ENDORSEMENT RECEIPT FOR SECURITY AND DIRECTION TO FAX EARNINGS  Indicate the standard of	Commission.	With the Post	Corporation. This as	_wnich account i	s insured by the
IMPORTANT - SIGNATURE OF ASSIGNOR  This Assignment shall be signed by the  Chuska, Energy Company  NAME OF ASSIGNOR EXACTLY AS SHOWN ABOVE  FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNOR EXACTLY AS SHOWN ABOVE  FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNOR EXACTLY AS SHOWN ABOVE  SIGNATURE OF ASSIGNOR EXACTLY AS SHOWN ABOVE  FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNOR EXACTLY AS SHOWN ABOVE  FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNMENT  Chuska, Energy Company  NAME OF ASSIGNOR EXACTLY AS SHOWN ABOVE  SIGNATURE OF ASSIGNOR EXACTLY AS SHOWN ABOVE  FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNMENT  SIGNATURE OF ASSIGNOR EXACTLY AS SHOWN ABOVE  FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNMENT  SIGNATURE OF ASSIGNOR EXACTLY AS SHOWN ABOVE  FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNMENT  FIRST ENDORSEMENT RECEIPT FOR SECURITY AND DIRECTION TO FAX EARNINGS  Indicate the standard of	Dated this30+6 day of A!	cue unites o	f the Oil and	Sac Con-	as security for
This Assignment shall be signed by the  Chuska Energy Company  NAME OF ASSIGNOR EXACILITY AS SHOWN ABOVE  FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNMENT  Coccipt is hereby acknowledged to the Treasurer of the State of Adjana, hereinafter referred to as the TREASURER, of written notice of the assignment to said Treasurer of the above-identified account. We have noted governords to show the interest of the Treasurer in said to Treasurer. We further hereby waive any courtent and future right of set-off against the above-identified account prior to its assignment to said the Treasurer adopted in accordance with applicable laws and the law applicable to this institution.  Aled this Aday of Adjana hereinafter referred to as the TREASURER, of written notice of the Treasurer in said of the Treasurer adopted in accordance with applicable laws and the law applicable to this institution.  Applicable of the Treasurer adopted in accordance with applicable laws and the law applicable to this institution.  Applicable of Financial Institution  NOTARY FUBLIC SIGNATURE  SECOND ENSORSEMENT - RECEIPT FOR SECURITY AND DIRECTION TO PAY EARNINGS  integer of the assignment above and the account identified in the assignment above is hereby authorized and directed or account identified in the assignment above is hereby authorized and directed or account identified in the assignment above is hereby authorized and directed or account identified in the assignment above is hereby authorized and directed or account identified in the assignment above is hereby authorized and directed or account identified in the assignment above is hereby authorized and directed or account identified in the assignment above is hereby authorized and directed or account identified in the assignment above is hereby authorized and directed or account identified and the account identified and the account identified and the account identified and the account identified and the account identified and the account identified and the account identified and the acco	IMPORTANT - November			ods conserva	ation
Individual Himself  SIGNATURE OF ASSIGNOR EXACTIVAS SHOWN ABOVE  FIRST ENDORSEMENT RECEIPTION NOTICE OF ASSIGNMENT  Receipt is hereby acknowledged to the Treasurer of the State of Ankona, hereinafter referred to as the TREASURER, of written notice of eassignment to said Treasurer of the above-identified account. We have noted our records to show the interest of the Treasurer in said increasurer. We further hereby waive any current and future right of set-off against the above-identified account prior to its assignment to the Current and future right of set-off against such account. We agree to make payment as related this way of a such account. We agree to make payment as related this current adopted in accordance with applicable laws and the law applicable to this institution.  Anizona  NAME OF FINANCIAL INSTITUTION  SECOND ENSORSEMENT - RECEIPT FOR SECURITY AND DIRECTION TO PAY EARNINGS  included in the assignment above is hereby authorized and directed account identified in the assignment above is hereby authorized and directed account identified in the assignment above is hereby authorized and directed account identified in the assignment above is hereby authorized and directed account identified in the assignment above is hereby authorized and directed account identified in the assignment above is hereby authorized and directed account identified in the assignment above is hereby authorized and directed account identified in the assignment above is hereby authorized and directed account identified in the assignment above.	-SIGNATURE OF ASSIGNATION	, 19_67_,	at San A	2 Lactor	
FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNOR EXECUTE STIOWN ABOVE  FIRST ENDORSEMENT RECEIPT FOR NOTICE OF ASSIGNMENT  Count as shown in and by the assignment above. We have retained a copy of this document. We hereby certify that we have not retained a copy of this document. We hereby certify that we have not retained by the Rules and Regulations of the Treasurer adopted in accordance with applicable laws and the law applicable to this institution.  Afizona  NAME OF FINANCIAL INSTITUTION  TITLE  SECOND ENSORSEMENT - RECEIPT FOR SECURITY AND DIRECTION TO FAY EARNINGS  tell is acknowledged of the assignment above and the account identified in the assignment place. The Assignment and supplicable is the responsible of the signment and supplicable in accordance with applicable representation.  SECOND ENSORSEMENT - RECEIPT FOR SECURITY AND DIRECTION TO FAY EARNINGS  tell is acknowledged of the assignment above and the account identified in the assignment above. The Country of the supplicable and directed to count identified in the assignment above. The Country of the supplicable and directed to count identified in the assignment above. The Country of the supplicable and directed to count identified in the assignment above. The Country of the supplicable and directed to count identified in the assignment above. The Country of the supplicable and directed to count identified in the assignment above. The Country of the supplicable and directed to count identified in the assignment above. The Country of the supplicable and directed to country of the supplicable and directed to country of the supplicable and directed to country of the supplicable and directed to country of the supplicable and directed to country of the supplicable and directed to country of the supplicable and directed to country of the supplicable and the supplicable and directed to country of the supplicable and the supplicable and the supplicable and the supplicable and the supplicable and the supplicable and the supplicable and the supplicable an	- · · · · · · · · · · · · · · · · · · ·	Chuska	17 17 AN	TEVAD	Arizone
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FIRST ENDORSEMENT. RECEIPT FOR NOTICE OF ASSIGNMENT  Receipt is hereby acknowledged to the Treasurer of the State of Arizona, hereinafter referred to as the TREASURER, of written notice of recount as shown in and by the assignment above. We have retained a copy of this document. We hereby certify that we have not records no show the interest of the Treasurer in said to Treasurer. We further hereby waive any current and future right of set-off against such account. We hereby certify that we have not restricted by the Rules and Regulations of the Treasurer adopted in accordance with applicable laws and the law applicable to this institution.  It does not record to the treasurer adopted in accordance with applicable laws and the law applicable to this institution.  It does not record to the said of the said of the treasurer adopted in accordance with applicable laws and the law applicable to this institution.  It does not record to the said of		BY	NOW EXACTO	Y AS SHOWN AP	OVE
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d this 14TH day of DECEMBER. 1989 at Grand After the date of this assignment on the above-	lified account of the second accordance and directed to	THE BEST	gament shows The	<del></del>	
DECEMBER 19 99 . City of the above-	ed this 14TH day of Commed assignor.	yey any earnings credited	after the date of the	inancia) institutio:	n named
	VECEMBER 19 89	at Prince 1.	of Mil2	essignment on the	above-

. 19 89, at SHOENIX

ARIZONA STATE TREASURER

Treasurer or Authorized Representative

By: Brian R. Charlette (Prepare in duplicate. Please Type all Information)

Attach Original Assignment to Certificates of Deposit and File with State.

1 DEC 14 . 1930 PH 930

STATE TREASURER

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ASSIGNMENT TO ARIZONA STATE TREASURER SECURITY IN LIEU OF CASH DEPOSIT FOR COMPLIANCE WITH SECTION 35-155 ARIZONA REVISED STATUTES

AZ OIL & GAS **CONSERVATION COMMISSION** 

DEC 11 1989

Chuska Energy Company NAME San Antonio 1250 N.E. Loop 410 CITY STREET ADDRESS Texas Bexar STATE COUNTY hereinaster referred to as ASSIGNOR, does hereby assign and transfer to the Treasurer of the State of Arizona, hereinaster reserred to as the TREASURER, all right, title and interest of any kind whatsoever, owned or held by Assignor in the principal, but not in the interest hereinalter accruing after the date of this assignment in the insured account of ASSIGNOR so long as such funds remain on deposit in the Valley National Bank of Arizona - Valley Center Office FINANCIAL INSTITUTION Phoenix Mariposa 241 N. Central whose address is COUNTY CITY STREET ADDRESS Twenty-Five Thousand Arizona, as evidenced by an account in the amount of which account is insured by the ) identified by account number 8272-4968 Federal Deposit Insurance Corporation or the Federal Savings and Loan Insurance Corporation. This assignment is given as security for compliance with ARS 27-501 to 539 and with the Rules of the Oil and Gas Conservation Texas. Commission. 30th day of \_ Energy Company IMPORTANT - SIGNATURE OF ASSIGNOR NAME OF ASSIGNOR EXACTLY AS SHOWN ABOVE This Assignment shall be signed by the Executive Vice Individual Himself SIGNATURE OF ASSIGNOR FIRST ENDORSEMENT, RECEIPT FOR NOTICE OF ASSIGNMENT Receipt is hereby acknowledged to the Treasurer of the State of Arizona, hereinafter referred to as the TREASURER, of written notice of the assignment to said Treasurer of the above-identified account. We have noted our records to show the interest of the Treasurer in said account as shown in and by the assignment above. We have retained a copy of this document. We hereby certify that we have not received any notice of lien, encumbrance, hold, claim or other obligation against the above-identified account prior to its assignment to the Treasurer. We further hereby waive any current and future right of set-off against such account. We agree to make payment as required by the Rules and Regulations of the Treasurer adopted in accordance with applicable laws and the law applicable to this institution. E OF OFFICER OF FINANCIAL INSTITUTION

> COMMISSION EXPIRES SECOND ENSORSEMENT - RECEIPT FOR SECURITY AND DIRECTION TO PAY EARNINGS

Receipt is acknowledged of the assignment above and the account identified in the assignment above. The financial institution named in the assignment above is hereby authorized and directed to pay any earnings credited after the date of this assignment on the aboveidentified account of the above-named assignor. , 19 89, at FHOENIX DEC 14 Beizgna. 1 330

day of Alage

Dated this 14TH day of DECEMBER ARIZONA STATE TREASURER Treasurer or Authorized Representative

Subscribed and sworn before me this 14

(3

Ally Commission Expires Copt. 30, 1993

NOTARY PUBLIC SIGNATURE

STATE TREASURER

By: Brian R. Choasan (Prepare in duplicate. Please Type all Information) Attach Original Assignment to Certificates of Deposit and File with State.

# CECURITIES SAFEKEEPING () 1700 WEST WASHINGTON ST. - PHOENIX, ARIZONA 85007

DATE: 12/14/89	STATE AGENCY NO.
STATE AGENCY AZ OIL & GAS CONSERVATION COMM.	State Treasurer's Use Only
COMPANY CHUSKA ENERGY CO. /  1850 Mt Diablo Blvd, Ste 640  Walnut , CA 94500	
DOMESTIC FOREIGN	
DEPOS  C.D. NO.: 2578904  ACCT NO.: 8272-4968  BANK: Valley National Bank of Arizona	RECERTIFIED
MATURITY DATE: 05/30/90 INTEREST RA	TE: 7.30 %
AMOUNT \$25,000.00 ~	$n \leq n \leq n$
C.D. ASSIGNMENT MUST BE ATTACHED UNLESS C.D. IS I	
C.D. NO.:  BANK:	ASE
MATURITY DATE: INTEREST R	ATE: %
AMOUNT \$	
STATE TREASURER VALIDATION NO.	
RECEIVED THE ABOVE RELEASE BY	STATE AGENCY AUTHORIZATION  BY Notice Green  Authorized Signature
Authorized Signature Date	STATE TREASURER AUTHORIZATION
	BY Brion R. ORESSOL
Bank or Firm	Authorized Signature
FOR BANK USE ONLY	BANK AUTHORIZATION
Checked by Verified by	Authorized Signature  STATE'S DEPOSITORY BANK

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Valle	y National Bank of Contact	Certificate of Deposit NON TRANSFE	2578904
BRANCH		BRANCH NO DAT	£
THIS CERTIFIES	THAT THERE HAS BEEN DEPOSITED IN THIS		
•	WHTE MAKE 25	i,000didis00cts	
PAY TO		ACCOUNT NO.	
	Arizona State Treasurer	8272-4968	\$ 25,000.00
(UPON SURRENDEA OF THIS	For Chuska Energy Co 1850 Mt Diablo Blvd Ste 640	S CERILIFICATE MATURES IN 180 Days May 30, 191 19 UNITAREST IS TO BE F	Monthly From Issue Date on Paid
CERTIFICATE PROPERLY ENDORSED)	Walnut CA 94500	THE RAIL OF -3	S PER ANNUM ON A 365 DAY YEAR BASIS.
	(6) (1) (7)	SI MILEREST PARMENT DUE	
		Automatically Renewable — This certificate will automatically fulless redeemed within 10 Calendar Days (ONE E	RUSINESS DAY FOR MATURITIES OF
	31	DAYS OR LESS) AFTER ANY MATURITY. THE BANK RE	TAINS THE RIGHT TO REDEEM THIS
	DATE G	ENTIFICATE OR CHANGE THE INTEREST RATE AS OF	ANY MATURITY.
0-100-0075 REV. 5/85	DAIL	June 1 Constitution State	Trida Struct

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(	ORGANIZATION REPORT	
Full Name of the Company, Organization, or Individual	<sub>dual</sub> Harken Southwest Corporati	00
Post Office Address (Box or Street Address)	•	
Plan of Organization (State whether organization is	TX 75261 -or- 2505 N. Hwy 360 a corporation, joint stock association, firm or partner	ship, or individual) 75050
Corporation		
Purpose of Organization (State type of business in v Oil & Gas Explo	oration	
If a reorganization, give name and address of previo Changed name from Chuska I		
If a foreign corporation, give (1) State where incorporated	(2) Name and post office address of state agent Corporation Service Co.	(3) Date of permit to do business in state
	530 South 4th Street	1980
Nevada	Las Vegas, Nevada 89101	
Principal Officers or Partners (if partnership)  NAME	TITLE	POST OFFICE ADDRESS
	Chairman of the Board	P. O. Drawer 612007
Mikel D. Faulkner	Chief Executive Officer President	Dallas, TX 75261
Richard Schroeder	Chief Operating Officer	11 11
	Senior Vice President	
Bruce Huff	Chief Financial Officer	11 11
Laure Cumpings	Vice President	1t 11
Larry Cummings	General Council	
		17/1
		(5/1)
	1 15/15/11	
	0 1111111111	
	101/11/10	
DIRECTORS NAME	111111111111111111111111111111111111111	POST OFFICE ADDRESS
/ All of the above	P. O. Drawer 612007, Dal	<del></del>
7 -7/11 01 0/10 00010	.11	
Don Raymond	1) ALO. Drawer 612007, Dal	las, TX 75261
	•	
	4444	
	777	
	- CATELLA	
	enalty of perjury, state that I am the Product is	on Administrator of the
Harken Southwest Corporation	(company), and that I am authorized	by said company to make this report; and that this parect and complete to the best of my knowledge
report was prepared under my supervision and o	direction and that the facts stated thefein are true, o	IV
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282930317	Signature Rache	elle L. Montgomerly
The state of the s		6/24/94
JUN 10HA CAL	Date	V/ GT/ JT
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ASTOCIET	Date OIL & GA	STATE OF ARIZONA S CONSERVATION COMMISSION
SE JUN 1994  SE JUN 1994  ARIZONA CAL  GEOSURVEY		Organization Report

File One Copy

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Form No. 1

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(	CRGANIZATION REPORT		
Full Name of the Company, Organization, or Individ	<sub></sub>	ion	
ost Office Address (Box or Street Address) P. O. Drawer 612007, Dallas, TX 75261 -or- 2505 N. Hwy 360, Suite 800, Grand Prairie,			
Plan of Organization (State whether organization is	a corporation, joint stock association, firm or partne	rship, or individual) 75050	
Corporation	think are considering the cons		
Purpose of Organization (State type of business in v Oil & Gas Explo			
If a reorganization, give name and address of previous	us organization.		
Changed name from Chuska E	nergy Company (2) Name and post office address of state agent	(3) Date of permit to do business in state	
(1) State where incorporated	Corporation Service Co.		
Nevada	530 South 4th Street Las Vegas, Nevada 89101	1980	
Principal Officers or Partners (if partnership)	TITLE	POST OFFICE ADDRESS	
NAME	Chairman of the Board	P. O. Drawer 612007	
Mikel D. Faulkner	Chief Executive Officer	Dallas, TX 75261	
Richard Schroeder	President Chief Operating Officer	11 11	
	Senior Vice President		
Bruce Huff	Chief Financial Officer Vice President	11 11	
Larry Cummings	General Council	11	
		TG/Wi	
		120	
	2010/2/46		
	01/1/10/20		
		SOOT OFFICE ADDRESS	
/ .All of the above	P. O. Drawer 612007, Da	POST OFFICE ADDRESS	
7 -ATT OF the above	T. O. Brawer 2012007; bu	1103, 17 / 001	
Don Raymond	DALO. Drawer 612007, Da	llas, TX 75261	
	-		
	- Thirty	The state of the s	
CERTIFICATE: I, the undersigned, under the pe Harken Southwest Corporation		The state of the s	
report was prepared under my supervision and d	(company), and that lam authorized		
report via proportion and any coperation and	The state of the s	the Wontgomers	
0.20 30 21	Signature Rach		
86. 18 C2 2021 1/2		€ U U	
160 × 100 €	Date	6/24/94	
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Date    Control of the control of th			
SO JUN ARIZONALAL GEOLOGICAL	012 a di	Organization Report	
SECTION ARIZONA AL CONTROL OF SURVEY	<i>&gt;</i> ′′	File One Copy	
19/3/19/5/	Form No. 1		

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OFERATOR'S CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL OR GAS FROM LEASE Federal, State or Indian Lease Number, or lessor's name if fee lease Black Rock Paradox NOG 8707-1142 County Survey or Sec-Twp-Rge Arizona Apache Section 7&18-40N-29E Harken Southwest Corporation ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO: Texas 75038-2617 5605 N. MacArthur Blvd. Suite 400 Irving Above named operator authorizes (name of transporter) Giant Industries Transporter's street address New Mexico 87401 Farmington -5764 Hwy 64 Field address Oil, condensate, gas well gas, cosinghead gas % of the Condensate from said lease. 100 To transport OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS: Product transported Gas % transported 100 Name of gatherer Western Gas not a new lease, indicate whether or not it is a change of operator, change of not of leases and give effective date of change. Indicate whether or not this certificate is for a new lease name, change of gatherer, or a consolidation of Change of Condensate Purchaser

The undersigned certifies that the rules and regulations of the State of Arizona Oil & Gas Conservation Commission have been complied with in drilling and producing operations on this lease, except as noted above, and that the above transporter is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property, and that this authorization will be valid until further notice or until cancelled by the State of Arizona Oil & Gas Conservation Commission.

CERTIFICATE: I. the undersigned, under the penalty of perjury, state that I am the Production Administrator

Harken Southwest Corporation (company), and that I am authorized by mid company to make this report: and that this report was prepared under my supervision and direction and that the facts stated therein are true correct and complete to the best of my knowledge.

Date

(Black Rock #8 & #12)

Date approved

STATE OF ARIZONA DIL & GAS CONSERVATION COMMISSION

Permit No.

NOV 1995 ARIZONA GEOLOGICAL SURVEY BIZIOISIN

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Operator's Certificate of Compliance & Authorization to Transport Oil or Gas from Lease

File Two Copies

Form No. 8

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(Black Rock #8 & #12)				
	TIFICATE OF COMPLI ANSPORT OIL OR GAS			
ederal, State, or Indian Lease Number, or Field		Res	ervoir	
ssor's name if fee lease NOG 8707-1142	Black Rock		Paradox	
urvey or Sec-Twp-Age Section 7&18-40N-29E	Apache	Stat	Arizona	
	hwest Corporat			
	PRESPONDENCE CONCER			
5 Inverness Drive East	Englewood	Sta	Colorado 80112	
bove named operator authorizes (name of transporter) Giant Industries				
Fransporter's street address City 5764 Hwy 64	Farmington		New Mexico 87401	
Field Address	ratmington		New Mexico 07401	
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		saidiman daz	form and discoun	
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OTHER GATHERERS TR	WANSPORTING FROM THIS L  * transported	Product transpor		
Lawren or Agrician				
Wantana Can	1009	Con		
Western Gas	100%	Gas		
<del></del>			•	
Indicate whether or not this certificate is for a r change of lease name, change of gatherer, or a	new lease. If not a new le	ase. Indicate who	ether or not it is a change of operator,	
Incorporation.  The undersigned certifies that the rules and regulations of und producing operations on this lease, except as noted of the allowable oil or gas produced from the above described of Adzona Oil & Gas Conservation Commission.  CERTIFICATE: I the undersigned, under the penalty of some	above, and that the above tran ribed property, and that this au	sporter is authorize thorization will be v	d to transport the above specified percentage	
RIM Southwest Corporation			ompany to make this report; that this report	
was prepared under my supervision and direction and th	at the facts stated therein are	Ker	w Moers	
Date	-	Signature Ren	e' Morin, Vice Presiden	
Date approved: 2-5-0/				
STATE OF ARIZONA OIL & GAS CONSERVATION COMM	IISSION			
Bu Stweet-Ra				
Permit No. 871, 875  Mail two copies of completed form to: Oil & Gas Program Administrator Arizona Geological Survey	3456	OIL & GAS Operator's Certif	STATE OF ARIZONA CONSERVATION COMMISSION ficate of Compliance & Authorization to sport Oil or Gas from Lease File Two Copies	
416 W. Congress #100 Tucson, AZ 85701-1315	NZONA ~ For	m No. 8	-	
KS GES	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		2/5	
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TYPE OR PRINT LEGIBLY FILE DUPLICATE ORIGINALS FILING FEE: \$100.00

> ARTICLES OF AMENDMENT TO TEE ARTICLES OF INCORPORATION

HM STATE COPPORTION COM DEC 55500 CORPORATION DEPARTM

FILED IN OFFICE OF

3214384

Pursuant to the provisions of Section 53-13-4, NMSA 1978, the undersigne corporation adopts the following Articles of Amendment to its Articles o

ARTICLE ONE: (Note 1) The Corporate name and NMSCC# of the corporation a

Marken Southwest Corporation 53080801 1070770

ARTICLE TWO: (Note 2) The following amendment to the Articles of Incorporation was adopted by the Sole Shareholder corporation on December 21, 2000 in the manner prescribed by the New Mexi Business Corporation Act: (Insert amendment or attach exhibit, if needed - Indication should be giv to reflect which article(s) number has been amended.)

ARTICLE CRE is amended and shall read as follows:

"The name of the corporation is RIM Southwest Corporation."

ARTICLE TERES: (Note 3) The number of shares of the corporation outstandi: at the time of such adoption was \_\_\_\_\_\_ 20,000 \_\_ and the number of sharentitled to vote thereon was 20,000

ARTICLE FOUR: (Note 4) The designation and number of outstanding shares of each class entitled to vote thereon as a class were as follows:

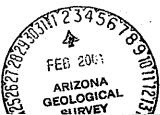
CLASS

NUMBER OF SHARES

One class only of Common Stock

20,000

ARTICLE FIVE: (Note 3) The number of shares voting for such amendment was and the number of shares voting against such amendment was



ARTICLE SIX: (Note 3) The number of shares of each class entitled to ve thereon as a class voted for and against such amendment, respectively, CLASS NUMBER OF SHARES

POR

AGAINST

Common -- only one class

20,000

ARTICLE SEVEN: (Note 4) The manner, it not set forth in such amendment, which any exchange, reclassification, or cancellation of issued shares provided for in the amendment shall be affected, is as follows:

inapplicable

DATED: December 2 , 2000

MA STATE COSCORDION COMMISSION HITED IN OFFICE OF DEC 222000 CORPORATION DEPARTMENT

Harken Southwest Corporation

(Note 1) CORPORATE NAME

(Note 5) Its

Stephen W

(Note 5)

Rene Morin

Under penalty of perjury, the undersigned declares that the foregoing document executed by the corporation and that the statements contained therein are true and correct to the best of my knowledge.

Harken population

(Note 5) (One of the above officers.sign:

Stephen K. Rector, President



# RESOLUTION OF THE SOLE SHAREHOLDER OF HARKEN SOUTHWEST CORPORATION

A Special Meeting of the sole shareholder of HARKEN SOUTHWEST CORPORATION, (the "Corporation"), was held beginning at 3.3, Mountain Time, on Ituaday December 31, 2000, pursuant to which the sole shareholder consented to, voted in favor of and adopted the following resolution:

RESOLVED, that the Articles of Incorporation of the Corporation be amended in the form attached hereto by changing the name of the Corporation as follows:

#### ARTICLE I

#### <u>NAME</u>

The name of the corporation is RIM Southwest Corporation.

IN WITNESS WHEREOF, the undersigned has executed this written consent to be effective as of the 2 day of December 2000.

RIM SW HOLDING CORPORATION, a Colorado corporation

Name: Stephen W. Rector

Its: President



#680332 v1

## ORGANIZATION REPORT

<u>(</u>

Full Name of the Company, Organization, or Individu RIM SOUTHWEST CORPORATIO	al N (FORMERLY KNOWN A	S HARKEN SO	UTHWEST CORPORATION)	
Mailing Address and Phone Number				
5 INVERNESS DRIVE EAST,	ENGLEWOOD, COLORADO		303) 799-9828	
Plan of Organization (State whether organization is Corporation	a corporation joint stock association	on, firm or partnersh	ip, or Individual	
Purpose of Organization (State type of business in v	vhich engaged)			
Oil & Gas Production/Sal				
If a reorganiztion, give name and address of previous N/A	us organization			
If a foreign corporation give (1) State where incorporated	(2) Name and mailing address of state agent CT Corporation		(3) Date of permit to do business in state	
New Mexico	322 5 N. Central A		1/16/88	
Principal Officers or Partners (if partnership)	Phoenix, AZ 8501	<del></del>	MAILING ADDRESS	
NAME			· • • • • • • • • • • • • • • • • • • •	
			5 Inverness Drive East	
V. A. Isaacs, Jr.	Chairman, Board o	f Directors	Englewood, CO 80112	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		5 Inverness Drive East	
Stephen W. Rector	President		Englewood, CO 80112 5 Inverness Drive East	
Rene' Morin	Vice President		Englewood, CO 80112	
Refie Hotth	Vice President/Se	cretary/	5 Inverness Drive East	
Robert L. Vesco	Treasurer		Englewood, CO 80112 Post Office Box 2058	
			•	
William J. Holcomb	Vice President		Farmington, NM 87499	
	<u>                                     </u>			
			·	
DIRECTORS NAME V. A. Isaacs, Jr.		SAME A	MAILING ADDRESS AS ABOVE	
Stephen W. Rector		13	11	
Beepines III Receipt				
Rene' Morin		tt .	· ·	
Robert L. Vesco			11	
William J. Holcomb		17	15	
CERTIFICATE 1, the undersigned, under the p	enalty of perjury state that I am t	he <u>Secre</u>	tary of the	
RIM Southwest Corporati			by said company to make this report; and that this	
report was prepared under my supervision and o	lirection and that the facts stated t	herein are true, com	ect and complete to the best of my knowledge.	
iopoit in a proposal and a proposal			- Julser	
•	•		t L. Vesco, Secretary	
		-	/25/01	
	- 1 <sup>343</sup> 67			
	<b>S</b>	Date		
E FER	3 2001		STATE OF ARIZONA	
Mail completed form to Oil and Gas Program Administrator Arizona Geological Survey 416 W Congress., \$100 Tucson, AZ 85701	2001 RIZONA DLOGICAL SURVEY	OIL & GAS	S CONSERVATION COMMISSION	
Mail completed form to にい GEO	DLUGEY CO		Organization Report	
Oil and Gas Program Administrato				
416 W Congress., \$100	nacial Halle	Form No. 1	•	
IUCSOR, M.C. 65701	المرابع المراب		2/96	